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CR-120,061
JUNE 1972



SPACE SHUTTLE-

SPACE SHUTTLE ABORT SEPARATION PRESSURE INVESTIGATION

VOLUME II PART B

ORBITER DATA AT MACH 5

by

L. L. Trimmer, ARO

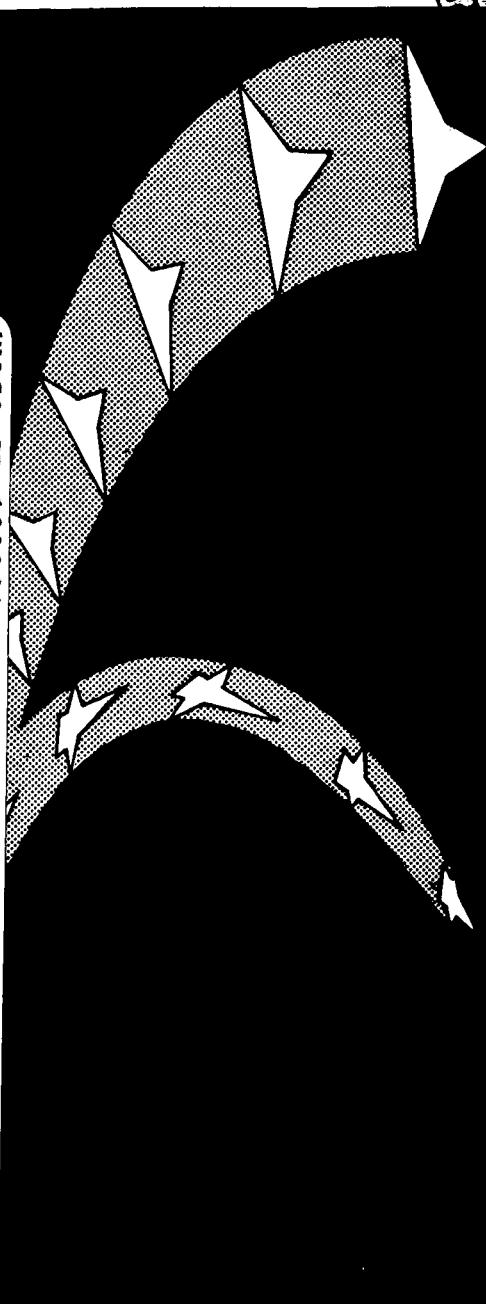
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SADSAC SPACE SHUTTLE
AEROTHERMODYNAMIC
DATA MANAGEMENT SYSTEM

N72-27926

CONTRACT NAS8-4016
MARSHALL SPACE FLIGHT CENTER

SPACE DIVISION  CHRYSLER
CORPORATION

AEDC-VKF TUNNEL A

Arnold Engineering
Development Center

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SADSAC/SPACE SHUTTLE

WIND TUNNEL TEST DATA REPORT

CONFIGURATION: MDAC Orbiter and Booster Shuttle Models; 0.00556 Scale

TEST PURPOSE: Experimental Pressure Investigation of Space Shuttle Booster
and Orbiter Vehicles in Proximity at Mach Numbers of 2.0
to 5.0

TEST FACILITY: AEDC-VKF Tunnel A

TESTING AGENCY: LaRC/MSFC

TEST NO. & DATE: AEDC STS 1163; 22 through 27 July, 1971

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CONTRACT NAS 8-4016

AMENDMENT 158

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SPACE SHUTTLE ABORT SEPARATION

PRESSURE INVESTIGATION

By D. A. Love, etc.

S U M M A R Y

This report presents pressure data obtained from a joint Langley Research Center (LaRC)/Marshall Space Flight Center (MSFC) Space Shuttle abort stage separation wind tunnel test. The .00556 scale models of the McDonnell-Douglas orbiter and booster configurations were tested in proximity in Tunnel A of the Von Karman Facility (VKF), Arnold Engineering Development Center (AEDC) during the time period of July 22 to July 27, 1971. Data were obtained for nominal Mach numbers of 5.0, 3.0, and 2.0 and nominal Reynolds numbers of 1.09, 1.60, and 1.74 million per foot, respectively. Pressure data were obtained for the booster upper surface and orbiter lower surface at angles of attack of -10°, -5°, 0, 5, and 10° for zero degrees sideslip. For the complete pressure tap layout refer to figures 1 and 2 and tables II and III. The models were tested at incidence angles of 0 and 5° for several separation distances and power conditions. Plug nozzles utilizing air were used to simulate booster and orbiter plumes at various altitudes along a nominal ascent trajectory. Powered conditions were 100, 50, and 0 percent of full power for the orbiter and 100, 50 and 0 percent of full power for the booster. Data were also obtained with the booster canard off in close proximity.

Plotted data for this test will be published under one data report number (DMS-DR-1174) with six volumes as described below:

<u>Volume</u>	<u>Description</u>
I (Parts A & B)	Mach Number 5 Booster Pressure Data
II (Parts A & B)	Mach Number 5 Orbiter Pressure Data
III	Mach Number 3 Booster Pressure Data
IV	Mach Number 3 Orbiter Pressure Data
V	Mach Number 2 Booster Pressure Data
VI	Mach Number 2 Orbiter Pressure Data

NOMENCLATURE

AEDC STS 1163

<u>SYMBOL</u>	<u>SADSAC SYMBOL</u>	<u>DEFINITION</u>
a		Speed of sound; m/sec, ft/sec
b/2		Vehicle wing semi-span; in.
c		Local airfoil chord; in.
c.g.		Center of gravity
CP	CP	Pressure coefficient, $\frac{P_f - P_\infty}{q}$
L	L	Body length; in.
M _∞	MACH	Free stream mach number; v/a
P _f		Local static pressure; psia
P ₀		Free stream total pressure; psia
P _∞		Free stream static pressure; psia
q		Dynamic pressure; psi
RN/L	RN/L	Unit Reynolds number; per foot
T ₀		Freestream total temperature, °F
v		Velocity; m/sec, ft/sec
x		Distance from vehicle nose; in.
x/c	X/C	Local chord position
x/L	X/L	Longitudinal position
y		Distance from lateral centerline, in.
y/b/2	Y/B	Local semi-span position

NOMENCLATURE (Continued)

AEDC STS 1163

<u>SYMBOL</u>	<u>SADSAC SYMBOL</u>	<u>DEFINITION</u>
α_B	ALPHAB	Booster angle of attack; degrees
α_0	ALPHA ϕ	Orbiter angle of attack; degrees
α_i	ALPHAI	Incidence angle between the orbiter and booster, $\alpha_i = \alpha_0 - \alpha_B$; degrees
β	BETA	Angle of sideslip; degrees
θ	THETA	Angle measured from vehicle top center-line; degrees
PWR _B	BSTP ϕ W	Booster power, percent of full thrust
PWR _O	ORBP ϕ W	Orbiter power, percent of full thrust
x/L_B	DELTAX	Distance between the c.g. of the orbiter and booster measured parallel to the longitudinal axis of the booster, positive when the orbiter c.g. is forward of the booster c.g., the distance has been normalized with respect to the booster fuselage length (16.184 inches)
z/L_B	DELTAZ	Distance between the c.g. of the orbiter and booster measured normal to the longitudinal axis of the booster, positive when the orbiter c.g. is above the booster c.g., the distance has been normalized with respect to the booster fuselage length (16.184 inches)

CONFIGURATIONS INVESTIGATED

The two configurations tested were the MDAC orbiter and booster, figures 3 and 4 respectively. The orbiter is basically the configuration illustrated on MDAC drawing number 255BJ0050. Modifications made on the orbiter to allow for installation of the nozzle assembly are shown in figure 3.

The booster configuration is basically the configuration designated 19A by MDAC (drawing number 256-19-0001). The body, wing, and canard of the booster model are that of configuration 19A except that the body does not have a base flare or boattail, figure 4. The vertical tails are those which were designed for the configuration designated 17 (drawing number 256-17-001).

Dimensional data for both vehicles are shown in Table IV. Figures 7, 8, and 9 are photographs showing both models and models with associated separation hardware. Figures 8 and 9 also show the trip strip installation. For Mach 5 a grit size of #26 was utilized.

NOZZLE CALIBRATION

Two plug nozzle systems were designed and fabricated to simulate the rocket exhaust plume emitting from the booster and orbiter main propulsion systems during the staging. Each nozzle was designed based on the gasdynamic simulation parameters established in Ref. 1. A variable area ratio capability was incorporated into both nozzle systems to permit the proper gasdynamic simulation of the full scale rocket exhaust plume at the various trajectory conditions of interest. Photographs of the nozzle hardware are shown in figures 10, 11 and 12.

Nozzle Calibration Test Objectives

The objectives of the nozzle calibration test were:

- Establish, experimentally, nozzle performance characteristics for the range of area ratio settings to be used with the booster and orbiter nozzles, respectively.
- Establish the degree of plume simulation obtained with the booster and orbiter nozzles, respectively.
- Establish a curve (based on experimental results) of nozzle exit conditions as a function of nozzle area ratio setting.

Nozzle Calibration

Calibration testing of the booster and orbiter plug nozzles was accomplished in Tunnel C of the Arnold Engineering Development Center's Von Karman Gas Dynamics Facility. The nozzles were tested individually at a series of area ratio settings. Nozzle operating conditions (chamber pressure, P_{oj} ; and chamber temperature, T_{oj}) were maintained in a range compatible with the abort staging test conditions. A quiescent low pressure, P_b , condition was maintained in the test cell. Data recorded at each area ratio setting included: optical data to determine plume shapes; static pressure measurements on the sting surface at the nozzle exit; nozzle mass flow measurements; and pitot pressure surveys in the plume at several locations downstream of the nozzle exit plane. The various test parameters sampled at each setting were correlated during the data evaluation to establish actual nozzle performance characteristics.

In a parallel effort, analytical solutions of the nozzle flow field and associated plume were generated for various area ratio settings of the booster and orbiter models. A method of characteristics solution employing real gas thermodynamic data for air was utilized in the calculations. Analytical results for each area ratio setting included: plume shape; static pressure distribution

NOZZLE CALIBRATION
(Continued)

along sting surface; and plots of constant Mach number and constant pitot pressure contours in the plume flow field. These results formed a baseline for evaluating the experimentally measured performance of the plug nozzles.

A detailed evaluation of the calibration test results has been prepared and presented in Reference 2. Included in this reference are curves relating experimentally measured nozzle performance to nozzle area ratio settings for both booster and orbiter. These curves were utilized to set the correct nozzle area ratio for exhaust plume gasdynamic simulations during the test.

TEST PROCEDURE

Abort staging was simulated by movement of the orbiter model through a matrix of points in the booster model flow field. Vertical and axial translation of the orbiter model was provided by an electrically driven remotely controlled positioning mechanism. The general arrangement of the models in the tunnel is shown in figure 5. The orbiter positioning mechanism and the booster model support were attached to the wind tunnel angle of attack system which provided ± 10 -degree angle of attack variation for the booster-orbiter combination. Incidence angle variation was provided by manual adjustment of the orbiter sting.

The orbiter positioning mechanism provided axial translation of approximately 17 inches and vertical translation of approximately 15 inches with respect to the booster. An automatic control system allowed a series of positions to be programmed prior to a test run. The control system had provisions for 25 different X-positions and 25 different Z-positions. For these tests, however, only a maximum of 6 X-positions and 5 Z-positions were utilized. All X and Z positions except the first and last could be switched in or out of the matrix as desired.

The automatic positioning mechanism was utilized in the pitch pause mode for this test. Pressure data was obtained at pre-selected angles of attack for a given relative position after which the automatic mechanism advanced to the next matrix position. The entire matrix was covered in this manner.

Plume simulation was provided by a single torodial nozzle in each model. The nozzles were designed with variable area ratio capability to permit proper simulation of the full-scale rocket plume at the various trajectory conditions of interest. Pretest calibration of the nozzles was used to correlate area ratio settings with measured plume shapes, nozzle mass flow, and nozzle exit static pressure. Air heated to approximately 100°F was supplied to the nozzles, and separate controls for the booster and orbiter supplies were provided.

TEST FACILITY DESCRIPTION

Tunnel A is a continuous, closed-circuit, variable density wind tunnel with an automatically driven flexible-plate-type nozzle and a 40- by 40-inch test section. The tunnel can be operated at Mach numbers from 1.5 to 6 at maximum stagnation pressures from 29 to 200 psia, respectively, and stagnation temperatures up to 750°R ($M_\infty = 6$). Minimum operating pressures range from about one-tenth to one-twentieth of the maximum at each Mach number. For a more comprehensive description of Tunnel A, see Reference 3.

DATA REDUCTION

The DELTAX and DELTAZ distances were referenced to nominal center of gravity locations on the orbiter and booster and to the booster body axis system. The nominal c.g. for the orbiter was located 4.917 inches aft of the nose, on the orbiter lateral centerline, and 1.390 inches below the top fuselage surface. Nominal c.g. for the booster was 7.528 inches aft of the model nose, on the booster lateral centerline, and 1.194 inches above the bottom fuselage surface. As illustrated in figure 6, the DELTAX distance is, then, parallel to the longitudinal axis of the booster and between the nominal center of gravity points on the orbiter and booster. The DELTAZ is perpendicular to the longitudinal axis of the booster and is the distance between the center of gravity points on the orbiter and booster. Values for DELTAX and DELTAZ are positive when the orbiter c.g. is forward and above the booster c.g. Both DELTAX and DELTAZ were normalized using the booster fuselage length of 16.184 inches.

R E F E R E N C E S

1. Sims, Joseph L., "Plume Simulation for Space Shuttle Abort Staging Aerodynamic Testing," Memo S&E-AERO-AF-70-6, December 1970.
2. Baker, L. R., "Calibration of the Propulsion Simulation Nozzles for the Space Shuttle Booster and Orbiter Models for the Abort/Separation Staging Experimental Program," LMSC/HREC D225144, June 1971.
3. "Test Facilities Handbook" (8th Edition), Arnold Engineering Development Center, December 1969.

TABLE II

TEST AEDC 1163 PRESSURE DATASET COLLATION SHEET

PRETEST
 POSTTEST

DATASET IDENTIFIER	CONFIGURATION	SCHD.						NO. OF RUNS	.105	.112	.120	.151	.228	.908
		P ₀	T ₀	M	α _i	A _{WRB}	P _{WRB}							
T851 (2)	BOOSTER/ORBITER	A	0°	22	135	5.0	0°	0	0	116	A	B	B	C
T852		A					0°	100	50	.22				C
T853		A					0°	50	100	114	A	B	B	C
T854		A					5°	50	100	24		D	D	
T855		B					5°	0	0	18		D	D	
T856		B					0°	50	100	20		D	D	
T857		B	▼	▼			0°	0	0	21		D	D	C
T858		0°	150	180			0°	0	0	20		D	D	C
T859		A	22	135			0°	0	0	20	E			
T860		A					0°	100	100	8	E			
T861		A					0°	100	0	20	E			
T862		B					0°	0	0	9	F			
T863	↓	(CANARD OFF) (TRIMMED AND) (TRIBS OFF)	B	▼	▼		0°	0	0	6	F			C

Refer to page 14 for DELTAX schedules.

Refer to page 14 for DELTAX schedules.

NOTES: (1)-Characters A through I refer to booster body, upper wing, lower wing, canard, & base, and orbiter body, upper wing, lower wing, & base, respectively. (2)-Characters 1 through 5 refer to angles of attack of -10, -5, 0, +5, & +10 degrees, respectively.

α or β
SCHEDULES
 $A(\alpha) = -10, -5, 0, +5, +10$
 $B(\alpha) = -5, 0, +5$

TABLE I (continued)

TEST AEDC 1163 PRESSURE DATASET COLLATION SHEET

PRETEST
 POSTTEST

DATASET IDENTIFIER	CONFIGURATION	SCHD.				PARAMETER VALUES				NO. OF RUNS	DELTAX
		P ₀	T ₀	M	α _i	P _{WB}	P _{WC}				
(1) T831	(2) BOOSTER/ORBITER	A	0°	11.5	120	3.0	0°	50	100	70	D
T832		A					0°	0	0	55	D
↓ T833	↓	A	↓	↓	↓	↓	0°	0	0	15	G
(1) T821	(2) BOOSTER/ORBITER	A	0°	7.5	120	2.0	0°	50	100	55	G
T822		A					0°	0	0	55	D
T823		A					0°	0	0	15	D
T824		B					5°	50	100	18	D
T825		B					5°	0	0	18	D
T826		A					0°	100	0	15	H
Y T827	↓	A	Y	Y	↓	↓	0°	100	100	5	I
(1) T8013	BOOSTER/ORBITER	0°	0°	-	-	0.0	5°	0	100	12	B
↓ T8023	↓	0°	0°	-	-	0.0	5°	0	100	6	B

Refer to page 14 for DELTAX schedules.

Refer to page 14 for DELTAX schedules.

NOTES: (1)-Characters A through I refer to booster body, upper wing, lower wing, canard, & base, and orbiter body, upper wing, lower wing, & base, respectively. (2)-Characters 1 through 5 refer to angles of attack of -10, -5, 0, +5, & +10 degrees, respectively.

α or β
SCHEMES
 $A(\alpha) = -10, -5, 0, +5, +10$
 $B(\alpha) = -5, 0, +5$

$$\begin{aligned}A(\alpha) &= -10, -5, 0, +5, +10 \\B(\alpha) &= -5, 0, +5\end{aligned}$$

TABLE I (Continued)

DELTAX Schedules

DELTAX Value	DELTAX Schedule	0.520	0.350	0.227	0.165	0.104	0.041	-0.020	-0.144	-0.291	-0.391
A		X		X	X	X					
B		X	X		X		X		X		X
C	X										
D		X		X	X	X		X			
E				X	X	X		X		X	
F					X						
G	X										
H			X	X	X						X
I										X	

TABLE II
ORBITER PRESSURE TAP LOCATIONS

Tap No.	TAP LOCATION			Tap No.	TAP LOCATION		
	$(x/L)_o$	$(y/b/2)_o$	Surface		$(x/L)_o$	$(y/b/2)_o$	Surface
1	0	0	Lower Body	28	.498	.231	Lower Body
2	.019			29	.586		
3	.066			30	.674		
4	.145			31	.762		
5	.233			32	.854		
6	.321			33	.944		
7	.409			34	.674	.400	Lower Wing
8	.498			35	.762		
9	.586			36	.854		
10	.676			37	.942		
11	.765			38	.764	.569	
12	.854			39	.854		
13	.943			40	.942		
14	.981			41	.852	.738	
15	.149	.077		42	.942		
16	.233			43		0	Upper Base
17	.321			44		.138	Lower Base
18	.409			45	.981	-.007	Upper Wing
19	.498			46	.981	.289	
20	.586			47	.939		
25	.233	.191		48	.851		
26	.321	.221		49	.981	.400	
27	.409	.231		50	.939		

x = Distance from orbiter nose

y = Distance from orbiter centerline

L = Orbiter length 27.153 cm (10.690 in.)

b/2 = Orbiter wing semi-span 8.255 cm (3.250 in.)

TABLE III
BOOSTER PRESSURE TAP LOCATIONS

Tap No.	TAP LOCATION			Tap No.	TAP LOCATION		
	$(x/L)_B$	$(y/b/2)_B$	Surface		$(x/L)_B$	$(y/b/2)_B$	Surface
1	.004	0	Body @, $\theta = 0^\circ$	30	.243	.092	Body, $\theta = 24^\circ$
2	.014			31	.305		
3	.025			32	.367		
4	.062			33	.490		
5	.120			34	.613		
6	.181			35	.737		
7	.243			36	.798		
8	.305			37	.860		
9	.366			38	.921		
10	.490			39	.983		
11	.613			40	.062	.155	Body, $\theta = 45^\circ$
12	.737			41	.124		
13	.799			42	.185		
14	.859			43	.247		
15	.921			44	.309		
16	.983			45	.371		
17	.062	.018	Nose Section	46	.494		
18	.120	.037		47	.618		
19	.181	.046		48	.741		
20	.243			49	.988	.220	Body, $\theta = 90^\circ$
21	.309	.220	Body, $\theta = 90^\circ$	93	.998	0	Base, $\theta = 0^\circ$
22	.371			94		.193	90°
23	.494			95		-.193	270°
24	.618			96		0	180°
25	.741			97	.803		Body, $\theta = 180^\circ$
26	.803			98	.865		
27	.851			99	.927		
28	.896			100	.988		
29	.942						

x = Distance from booster nose

y = Distance from booster centerline

L = Booster length 41.107 cm (16.184 in.)

b/2 = Booster semi-span 13.805 cm (5.435 in.)

TABLE III (Continued)
BOOSTER PRESSURE TAP LOCATIONS

Tap No.	TAP LOCATION			Tap No.	TAP LOCATION		
	$(x/c)_B$	$(y/b/2)_B$	Surface		$(x/c)_B$	$(y/b/2)_B$	Surface
53	.098	.221	Upper Wing	71	.718	.635	Upper Wing
54	.320			72	.926		
55	.542			73	.066	.773	
56	.763			74	.275		
57	.985			75	.484		
58	.101	.359		76	.696		
59	.320			77	.896		
60	.542			83	.195	.565	Upper Canard
61	.762			84	.716		
62	.970			85	.195	.879	
63	.103	.497		86	.716		
64	.319			87	.514	.230	Lower Wing
65	.528			88	.737		
66	.741			89	.960		
67	.948			90	.496		
68	.081	.635		91	.718		
69	.292			92	.940		
70	.507						

x = Distance from airfoil leading edge

y = Distance from booster centerline

c = Local airfoil chord

b/2 = Booster wing semi-span 13.805 cm (5.435 in.) for wing taps

b/2 = Booster canard semi-span 6.071 cm (2.390 in.) for canard taps

TABLE III (Concluded)
BOOSTER PRESSURE TAP LOCATIONS

Surface	$(y/b/2)_B$	Local Chord, cm	Local Chord, in.
Wing	.221	8.387	3.302
	.359	7.640	3.008
	.497	6.962	2.741
	.635	6.116	2.408
	.773	5.301	2.087
	.230	8.336	3.282
	.368	7.564	2.978
	.565	4.877	1.923
	.879	4.877	1.923
Canard			

TABLE IV. DIMENSIONAL DATA

MODEL COMPONENT: BODY - MDAC Orbiter

GENERAL DESCRIPTION: Basic fuselage contours including canopy with modified aft fuselage cross sections; cross-sectional shape constant from station 1500 to end of fuselage - model scale 1/180.

DRAWING NUMBER: 255 BJ 00060, Rev. B

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Length	<u>156.4</u>	<u>.869</u>
Max. Width	<u>27.1</u>	<u>.150</u>
Max. Depth	<u>30.3</u>	<u>.163</u>
Fineness Ratio	_____	_____
Area	_____	_____
Max. Cross-Sectional	_____	_____
Planform	_____	_____
Wetted	_____	_____
Base	_____	_____

TABLE IV. (CONTINUED)

MODEL COMPONENT: Wing - MDAC OrbiterGENERAL DESCRIPTION: Model Scale 1/180DRAWING NUMBER: 255 BJ 00050, Rev. BDIMENSIONS: FULL-SCALE MODEL SCALETOTAL DATA

Area, ft ²		
Planform	<u>5330.0</u>	<u>.164</u>
Wetted		
Span (equivalent), ft	<u>97.5</u>	<u>.542</u>
Aspect Ratio	<u>1.79</u>	<u>1.79</u>
Rate of Taper		
Taper Ratio	<u>.230</u>	<u>.230</u>
Dihedral Angle, degrees	<u>10.0</u>	<u>10.0</u>
Incidence Angle, degrees	<u>2.0</u>	<u>2.0</u>
Aerodynamic Twist, degrees	<u>0</u>	<u>0</u>
Sweep Back Angles, degrees		
Leading Edge	<u>55.0</u>	<u>55.0</u>
Trailing Edge	<u>0</u>	<u>0</u>
0.25 Element Line	<u>47.0</u>	<u>47.0</u>
Chords:		
Root (Wing Sta. 0.0), inches	<u>1034.8</u>	<u>6.027</u>
Tip, (equivalent), inches	<u>249.6</u>	<u>1.387</u>
MAC, inches	<u>754.3</u>	<u>4.193</u>
Fus. Sta. of .25 MAC		
W.P. of .25 MAC		
Airfoil Section		
Root (B.L. 162)	<u>0010-64</u>	<u>0010-64</u>
Tip (B.L. 540)	<u>0009-64</u>	<u>0009-64</u>

EXPOSED DATA

Area, ft ²	<u>3147.3</u>	<u>.097</u>
Span, (equivalent), ft	<u>70.5</u>	<u>.392</u>
Aspect Ratio	<u>1.58</u>	<u>1.50</u>
Taper Ratio		
Chords		
Root, inches	<u>855.0</u>	<u>4.750</u>
Tip, inches	<u>249.6</u>	<u>1.387</u>
MAC	<u>607.2</u>	<u>3.373</u>
Fus. Sta. of .25 MAC		
W.P. of .25 MAC		

TABLE IV. (CONTINUED)

MODEL COMPONENT: Vertical Tail - MDAC OrbiterGENERAL DESCRIPTION: Model Scale 1/180DRAWING NUMBER: 255 BJ 00050, Rev. BDIMENSIONS: FULL-SCALE MODEL SCALETOTAL DATA

Area, ft ²		
Planform	<u>580.0</u>	<u>.013</u>
Wetted		
Span (equivalent), ft.	<u>27.5</u>	<u>.153</u>
Aspect Ratio		
Rate of Taper		
Taper Ratio	<u>.638</u>	<u>.638</u>
Diehedral Angle, degrees		
Incidence Angle, degrees		
Aerodynamic Twist, degrees		
Toe-In Angle		
Cant Angle		
Sweep Back Angles, degrees		
Leading Edge	<u>30.0</u>	<u>30.0</u>
Trailing Edge	<u>13.1</u>	<u>13.1</u>
0.25 Element Line	<u>26.2</u>	<u>26.2</u>
Chords:		
Root, inches	<u>309.6</u>	<u>1.720</u>
Tip, (equivalent), inches	<u>196.8</u>	<u>1.093</u>
MAC, inches	<u>21.4</u>	<u>.119</u>
Fus. Sta. of .25 MAC		
W.P. of .25 MAC		
Airfoil Section		
Root	<u>0009-64</u>	<u>0009-64</u>
Tip	<u>0009-64</u>	<u>0009-64</u>

EXPOSED DATA

Area, ft ²		
Span, (equivalent), ft	<u>580.0</u>	<u>.018</u>
Aspect Ratio	<u>27.5</u>	<u>.153</u>
Taper Ratio	<u>.638</u>	<u>.638</u>
Chords:		
Root, inches	<u>309.6</u>	<u>1.720</u>
Tip, inches	<u>196.8</u>	<u>1.093</u>
MAC, inches	<u>21.4</u>	<u>.119</u>
Fus. Sta. of .25 MAC		
W.P. of .25 MAC		

TABLE IV. (CONTINUED)

MODEL COMPONENT: BODY - MDAC BoosterGENERAL DESCRIPTION: Configuration 19A fuselage without base flare and boattail
Model Scale 1/180DRAWING NUMBER: 256-19-0001, Rev. A

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Length (Ft)	<u>241.7</u>	<u>1.343</u>
Max. Width (Ft)	<u>34.0</u>	<u>.189</u>
Max. Depth (Ft)	<u>34.0</u>	<u>.189</u>
Fineness Ratio	—	—
Area	—	—
Max. Cross-Sectional	—	—
Planform	—	—
Wetted	—	—
Base	—	—

TABLE IV. (CONTINUED)

MODEL COMPONENT: Wing - MDAC BoosterGENERAL DESCRIPTION: Configuration 19A WingModel Scale 1/180

DRAWING NUMBER: _____

DIMENSIONS: FULL-SCALE MODEL SCALETOTAL DATA

Area, ft ²		
Planform	<u>6020.0</u>	<u>.136</u>
Wetted		
Span (equivalent), ft.	<u>116.0</u>	<u>.811</u>
Aspect Ratio	<u>3.54</u>	<u>3.54</u>
Rate of Taper		
Taper Ratio	<u>.435</u>	<u>.435</u>
Dihedral Angle, degrees	<u>7.67</u>	<u>7.67</u>
Incidence Angle, degrees	<u>3.0</u>	<u>3.0</u>
Aerodynamic Twist, degrees	<u>0</u>	<u>0</u>

Sweep Back Angles, degrees

Leading Edge	<u>44.0</u>	<u>44.0</u>
Trailing Edge		
0.25 Element Line		

Chords:

Root (Wing Sta. 0.0), inches	<u>690.0</u>	<u>3.333</u>
Tip, (equivalent)	<u>300.0</u>	<u>1.667</u>
MAC, inches	<u>520.0</u>	<u>2.839</u>
Fus. Sta. of .25 MAC, inches	<u>3625</u>	<u>20.139</u>
W.P. of .25 MAC, inches		
B.L. of .25 MAC, inches	<u>380</u>	<u>2.111</u>
Airfoil Section		
Root	<u>0010-64</u>	<u>0010-64</u>
Tip	<u>0010-64</u>	<u>0010-64</u>

EXPOSED DATA

Area, ft ²	<u>4190.0</u>	<u>.129</u>
Span, (equivalent), ft.		
Aspect Ratio		
Taper Ratio		
Chords:		
Root, inches	<u>594.0</u>	<u>3.300</u>
Tip, inches	<u>300.0</u>	<u>1.667</u>
MAC		
Fus. Sta. of .25 MAC		
W.P. of .25 MAC		

TABLE IV. (CONTINUED)

MODEL COMPONENT: Vertical Tails - MDAC Booster

GENERAL DESCRIPTION: Configuration 17 Vertical Tails

Model Scale 1/180

DRAWING NUMBER: 256-17-0001, Rev. A

DIMENSIONS: FULL-SCALE MODEL SCALE

TOTAL DATA (Values for one)

<u>Area</u>		
Planform (True)	438	.014
(Side Projection)	397	.012
Span (equivalent), inches	276	1.533
Aspect Ratio	1.21	1.21
Rate of Taper		
Taper Ratio	.520	.520
<u>Toe-In Angle</u>		
<u>Cant Angle</u>	0	0
<u>Sweep Back Angles, degrees</u>	25	25
Leading Edge	40	40
Trailing Edge		
0.25 Element Line		
<u>Chords:</u>		
Root	300	1.667
Tip, (equivalent), inches	156	.867
MAC, inches	236	1.311
Fus. Sta. of .25 MAC		
W.P. of .25 MAC		
<u>Airfoil Section</u>		
Root	NACA 64A-009	NACA 64A-009
Tip	NACA 64A-009	NACA 64A-009

EXPOSED DATA

<u>Area</u>		
Span, (equivalent)		
Aspect Ratio		
Taper Ratio		
<u>Chords</u>		
Root		
Tip		
MAC		
Fus. Sta. of .25 MAC		
W.P. of .25 MAC		

TABLE IV. (CONTINUED)

MODEL COMPONENT: Canard - MDAC BoosterGENERAL DESCRIPTION: Configuration 19A CanardModel Scale 1/180DRAWING NUMBER: 256-19-001, Rev. ADIMENSIONS:

	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Theo. Area, Ft ²	1660	.051
Exp Area, Ft ²	1215	.033
Aspect Ratio	3.0	3.0
Chord (Incl. Flap), Ft	23.625	.131
Airfoil (360 In. Theo Chord)	NACA 63-018	NACA 63-018

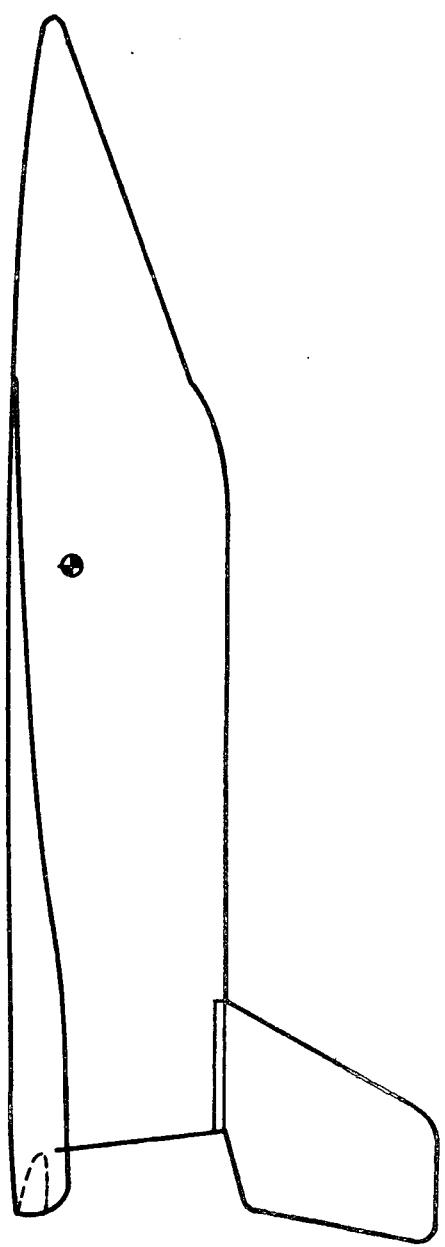
TABLE V. INDEX OF MODEL FIGURES

Figure	Title	Page
1	Pressure Tap Layout - Orbiter	28
2	Pressure Tap Layout - Booster	29
3	Modifications to Orbiter Model	30
4	Modifications to Booster Model	31
5	General Arrangement of Models in Tunnel	32
6	Separation Nomenclature and Center of Gravity Locations	33
7	Photograph of MDAC Booster and Orbiter Models	34
8	Photograph of Side View of Models and Separation Hardware	35
9	Photograph of Top View of Models and Associated Separation Hardware	36
10	Photograph of Booster and Orbiter Sting-Nozzle Hardware	37
11	Photograph of Booster Nozzle Hardware	38
12	Photograph of Orbiter Nozzle Hardware	39

TABLE VI. INDEX OF DATA FIGURES

VOLUME 2 - PARTS A AND B

TITLE	VEHICLE SECTION	TYPE PLOT	CONDITIONS VARYING	PAGES
<u>PART A</u>				
Longitudinal Distribution of Orbiter Fuselage Pressures-Mach 5	Fuselage	CP vs. X/L	DELTAX, DELTAZ, Y/B, α_B	1-248
Longitudinal Distribution of Orbiter Upper Wing Pressures-Mach 5	Upper Wing	CP vs. X/L	DELTAX, DELTAZ, Y/B, α_B	249-496
<u>PART B</u>				
Longitudinal Distribution of Orbiter Lower Wing Pressures-Mach 5	Lower Wing	CP vs. X/L	DELTAX, DELTAZ, Y/B, α_B	497-992
Radial Distribution of Orbiter Base Pressures-Mach 5	Base	CP vs. θ	DELTAX, DELTAZ, α_B	993-1116



NOTE: Tap numbers in parentheses with solid symbols are on upper side of wing.

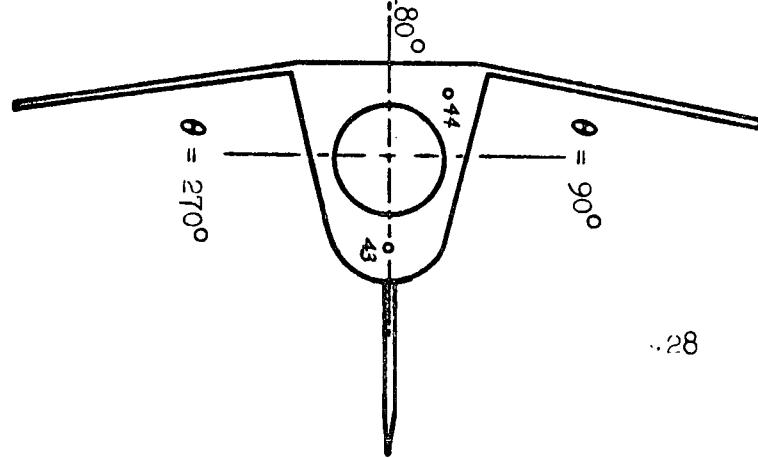
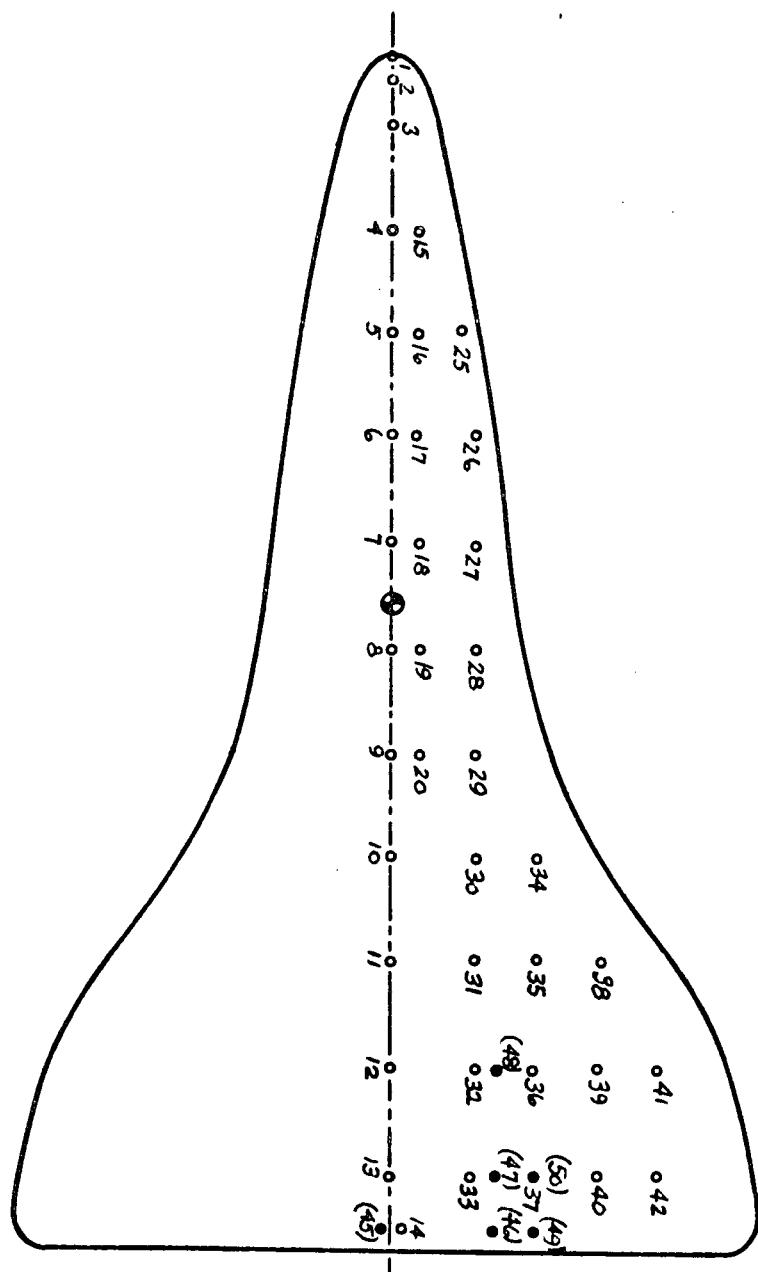


Fig. 1.- Pressure Tap Layout - Orbiter

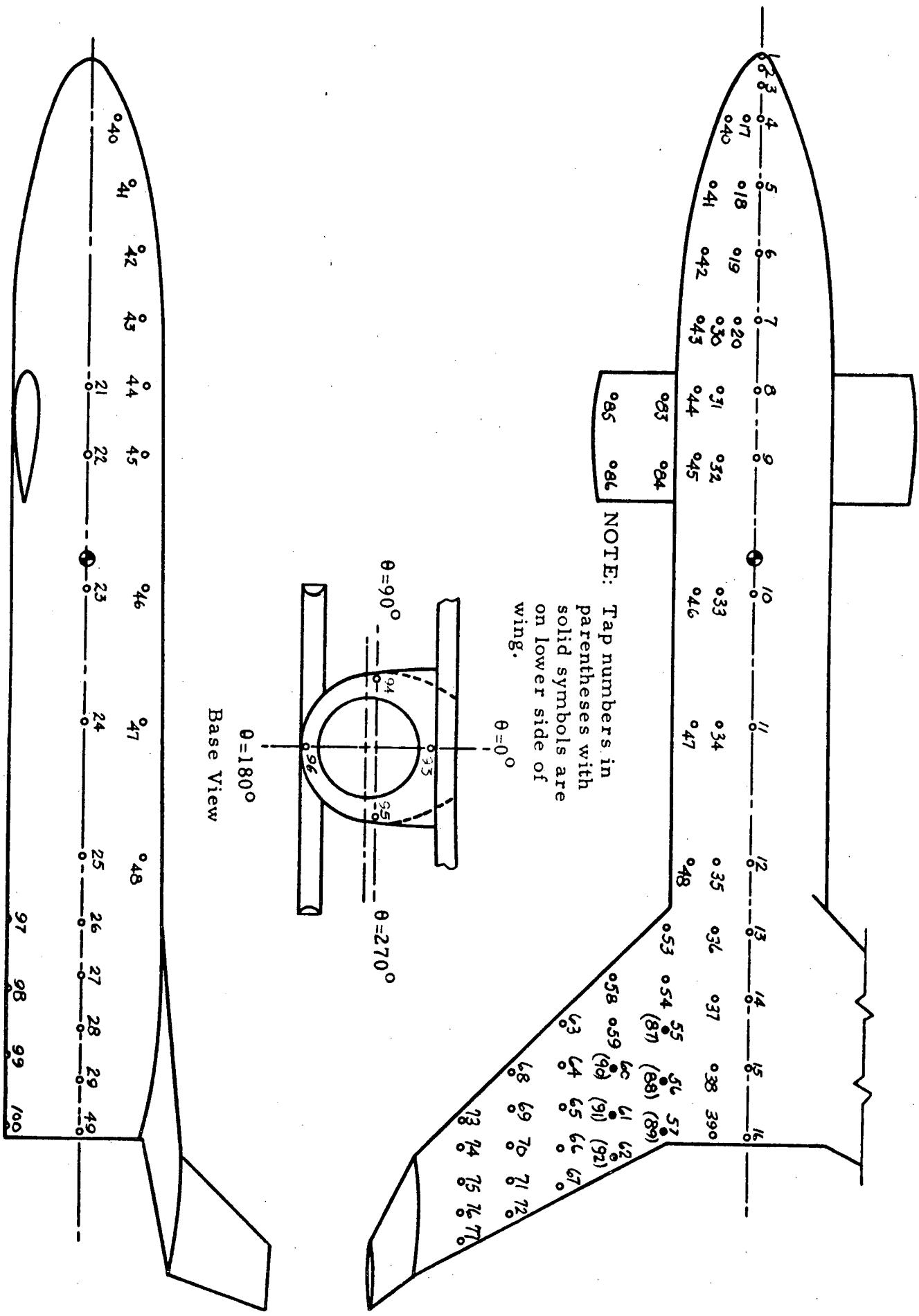


Fig. 2 - Pressure Tap Layout - Booster

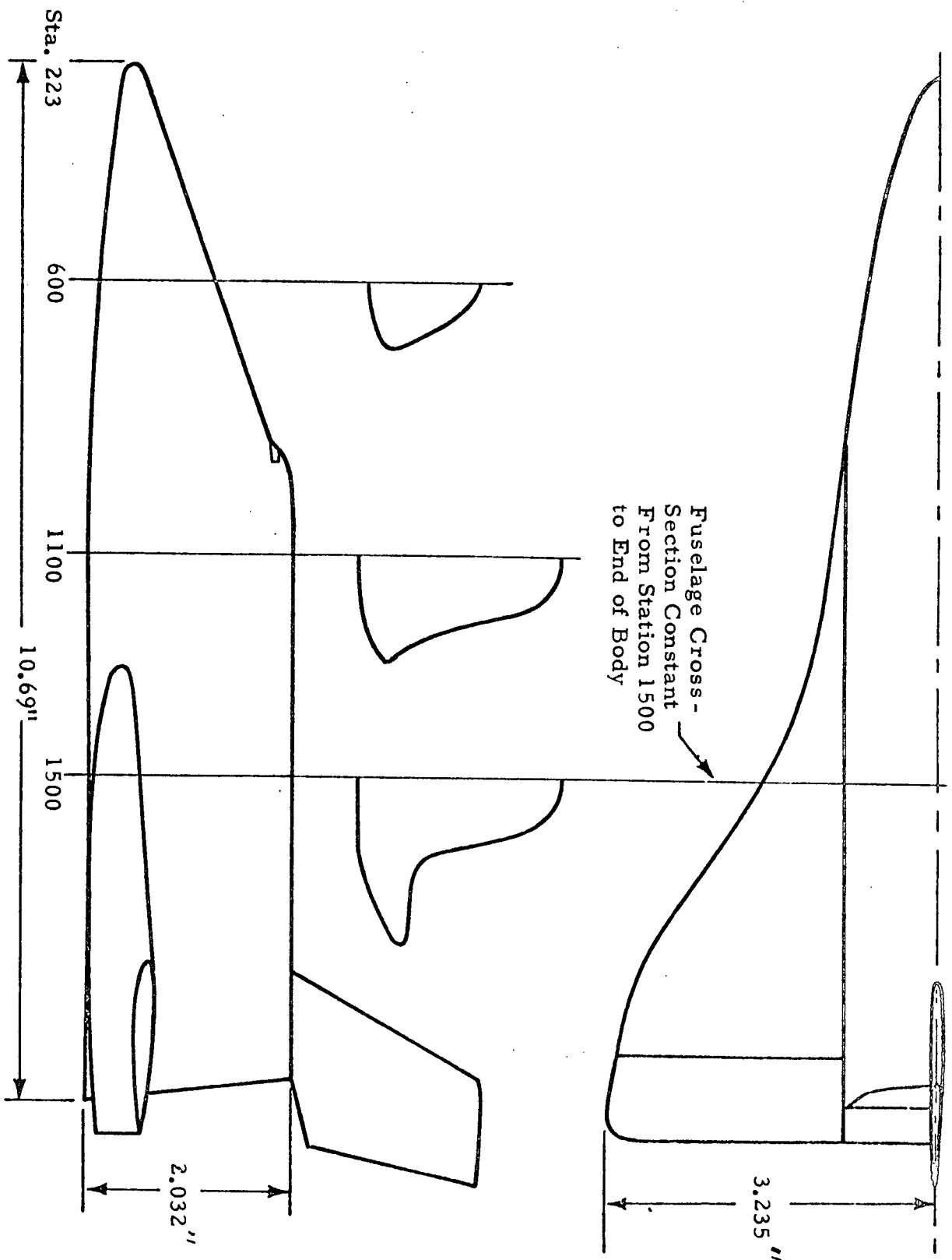
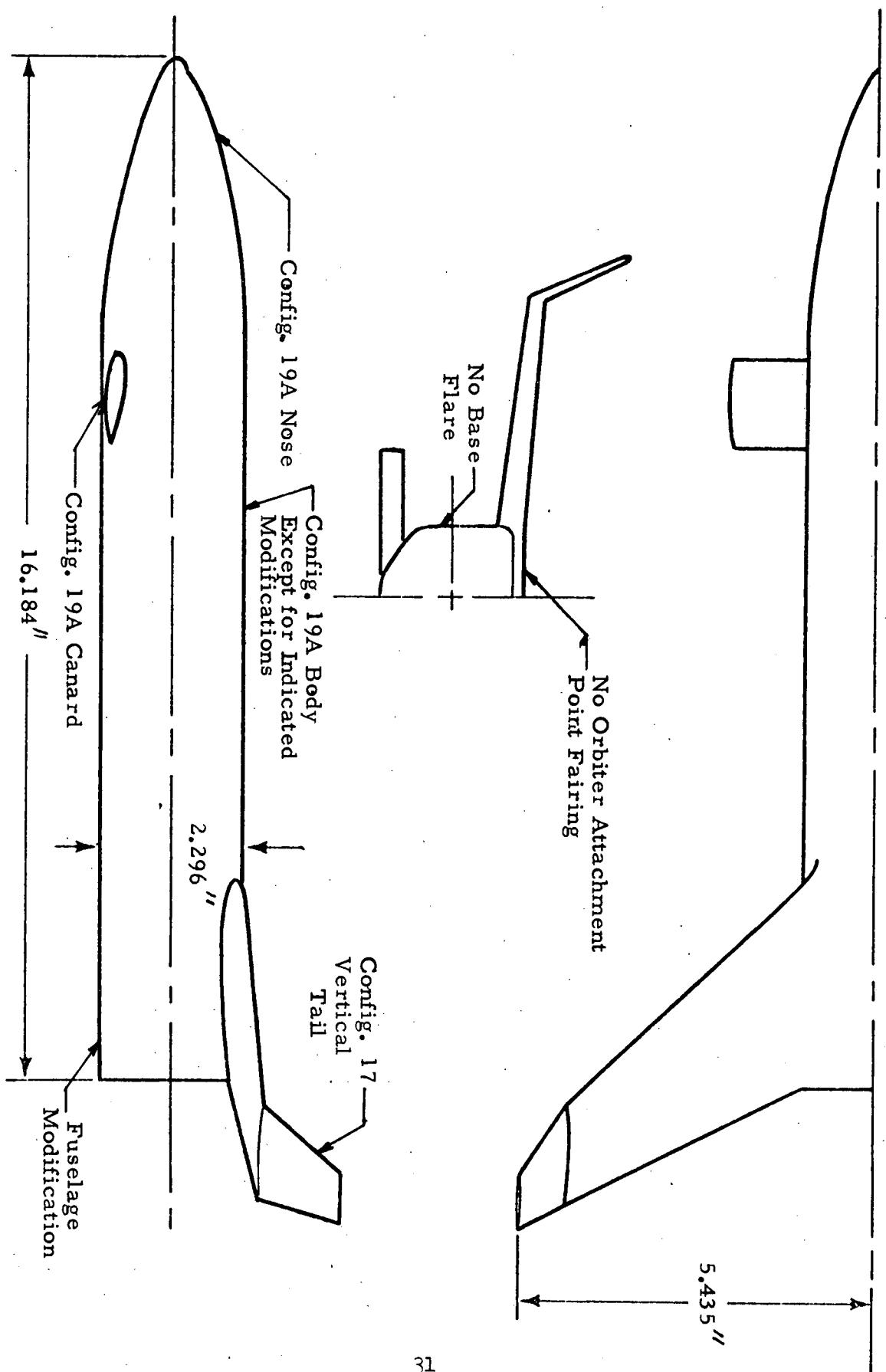


Fig. 3 - Modifications to Orbiter Model



40-INCH SUPERSONIC TUNNEL A

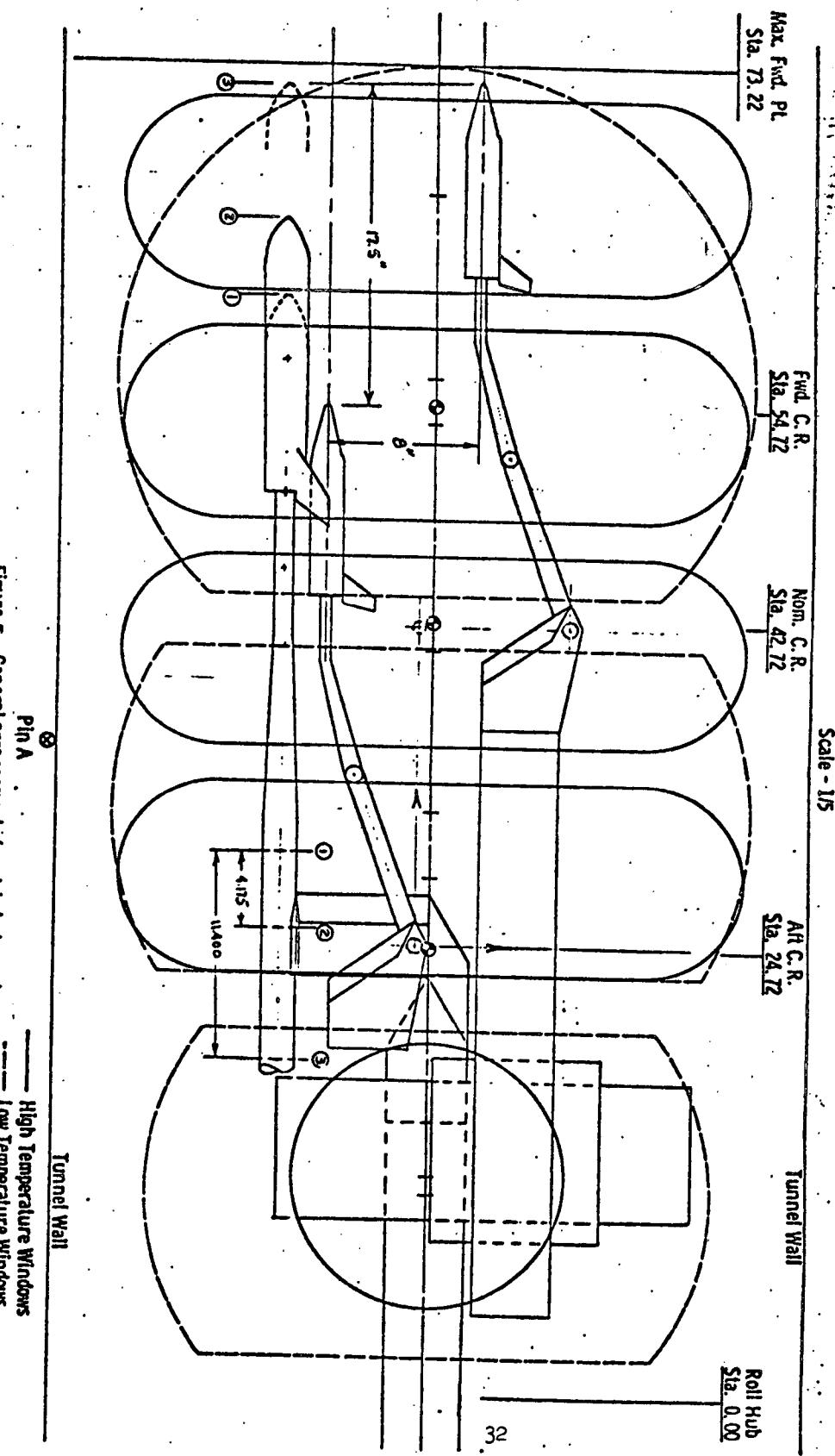
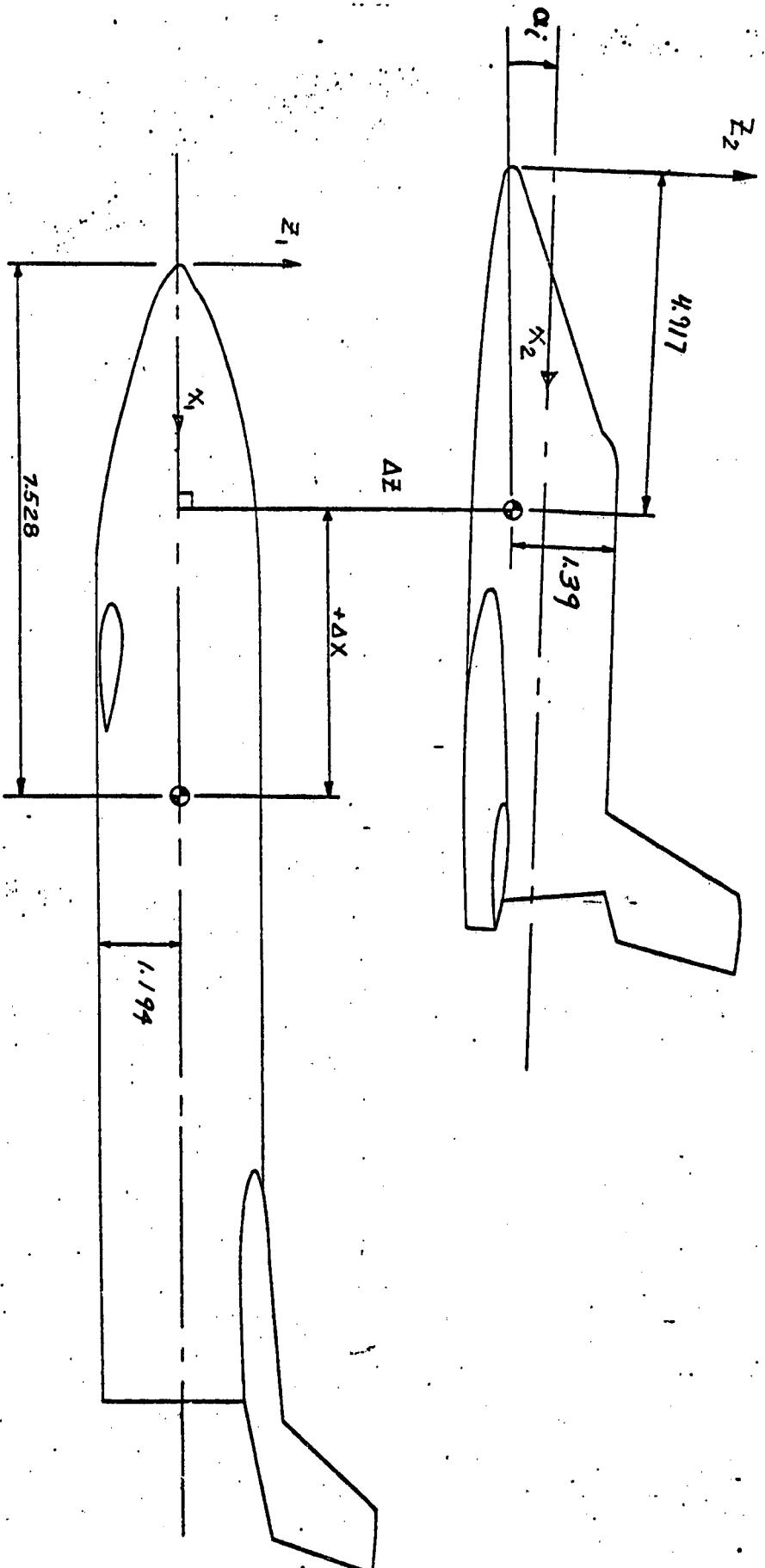


Figure 5 - General arrangement of models in tunnel



All dimensions are model scale, in inches.

Figure 6. Separation Nomenclature and Center of Gravity Locations

U.S. AIR FORCE PHOTO-AEC
AOO INC. OPERATING CONTRACTOR
ARNOLD A.F. STATION TECN.

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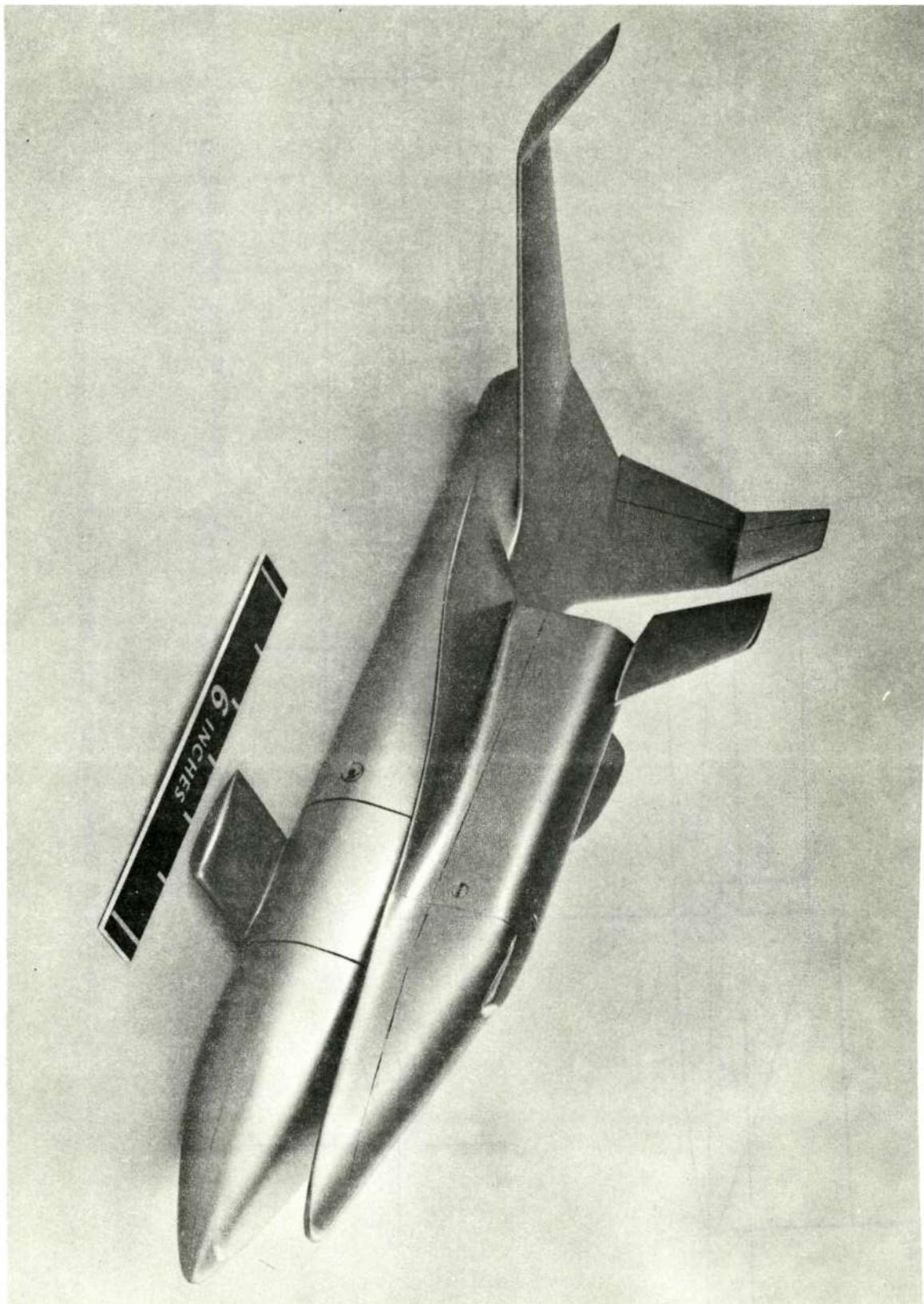


Figure 7. Photograph of MDAC Booster and Orbiter Models

U.S. AIR FORCE PHOTO-AEDC
AED INC., OPERATING CONTRACTOR
ARNOLD A.F. STATION TECH.

Not cleared for public release without
prior written approval of the responsible
Air Force Office of Information.

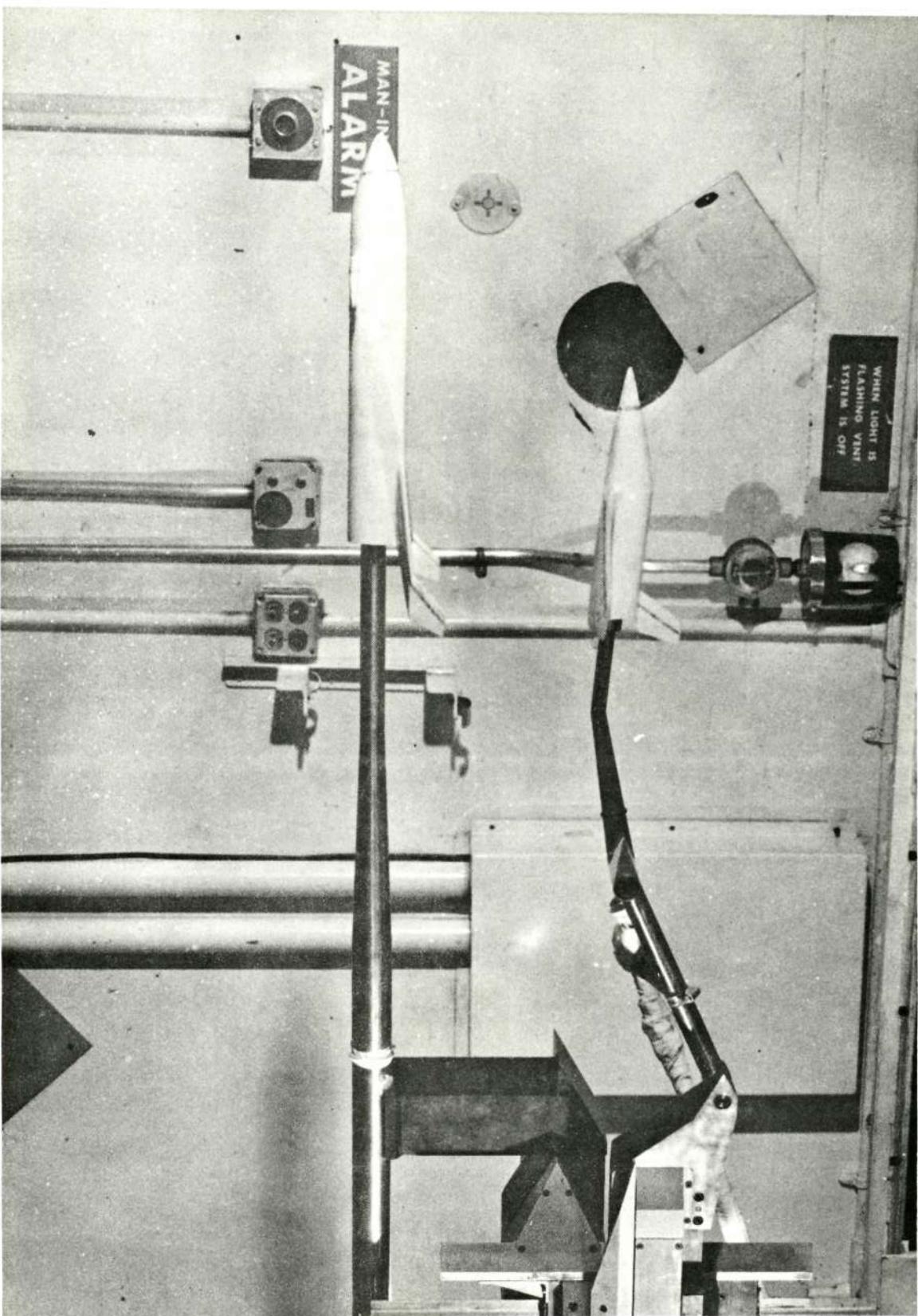


Figure 8. Photograph of Side View of Models and Separation Hardware

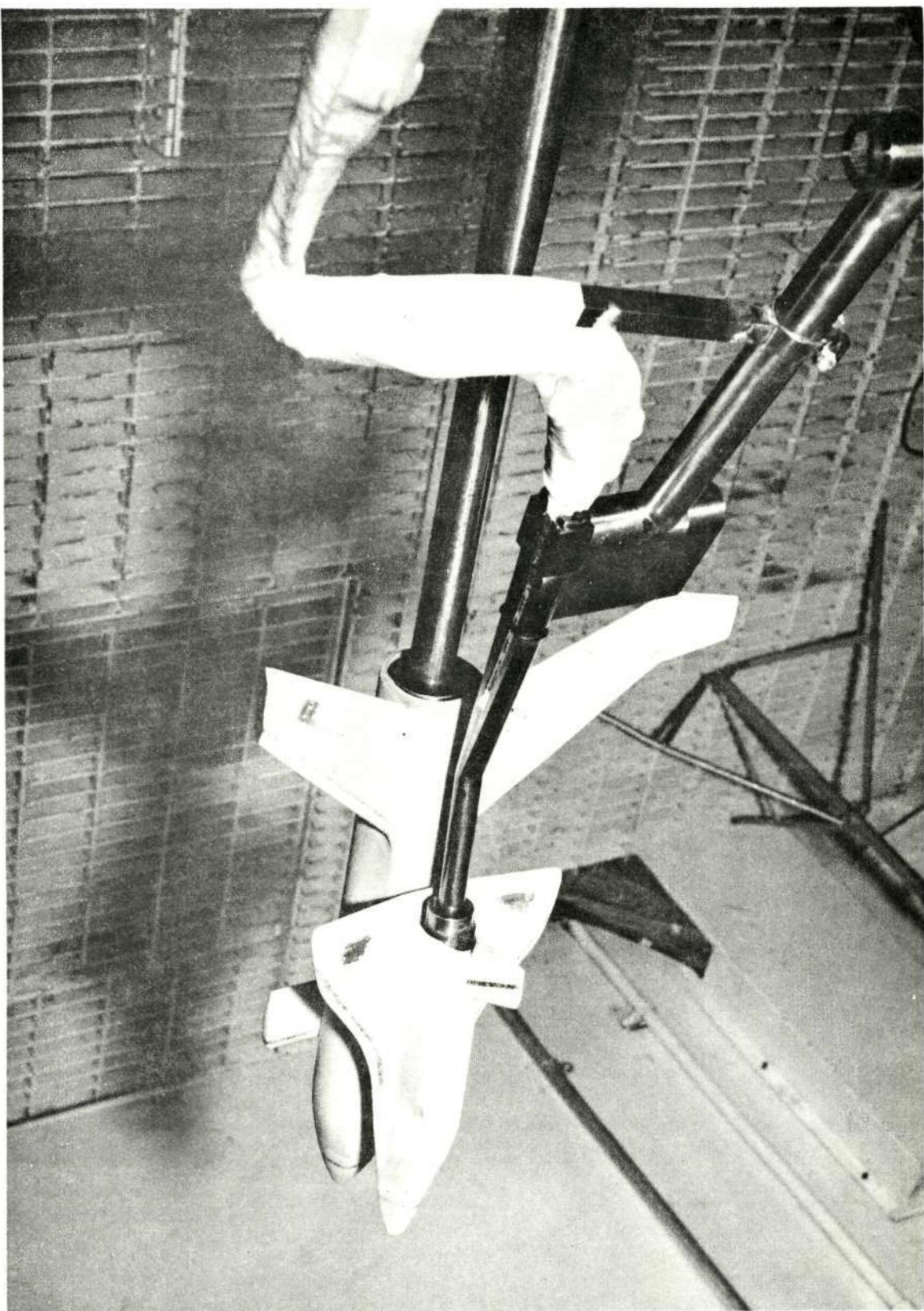


Figure 9. Photograph of Top View of Models and Associated Separation Hardware

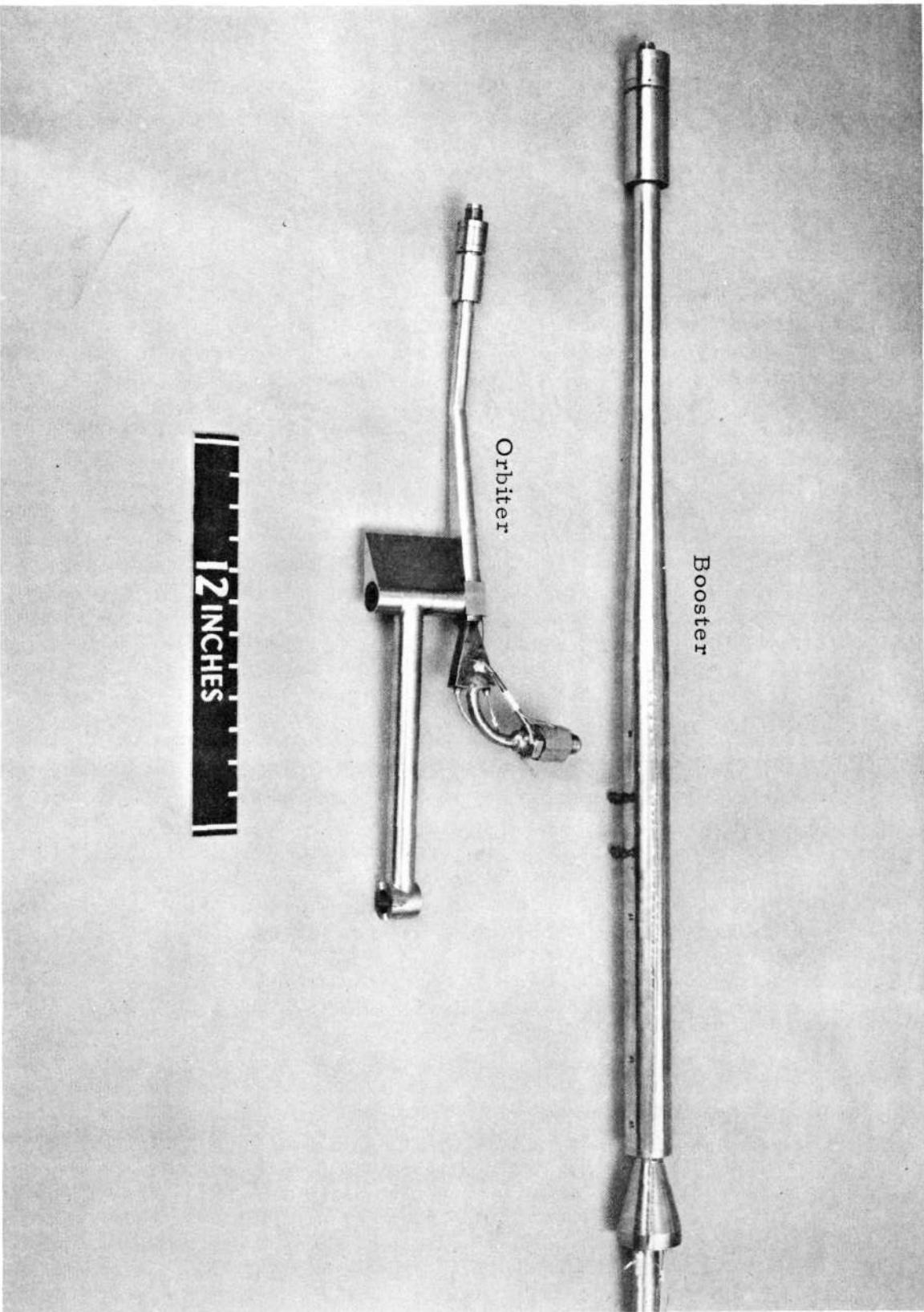
(4-27-71) VA1163 NASA STS

U.S. AIR FORCE PHOTO-AEDC
AEDC INC., OPERATING CONTRACTOR
ARNOLD A.F. STATION, TENN.

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U.S. AIR FORCE PHOTO-AEDC
AND INC., OPERATING CONTRACTOR
ARNOLD A.F. STATION TENN.

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prior written approval of the responsible
Air Force Office of Information.

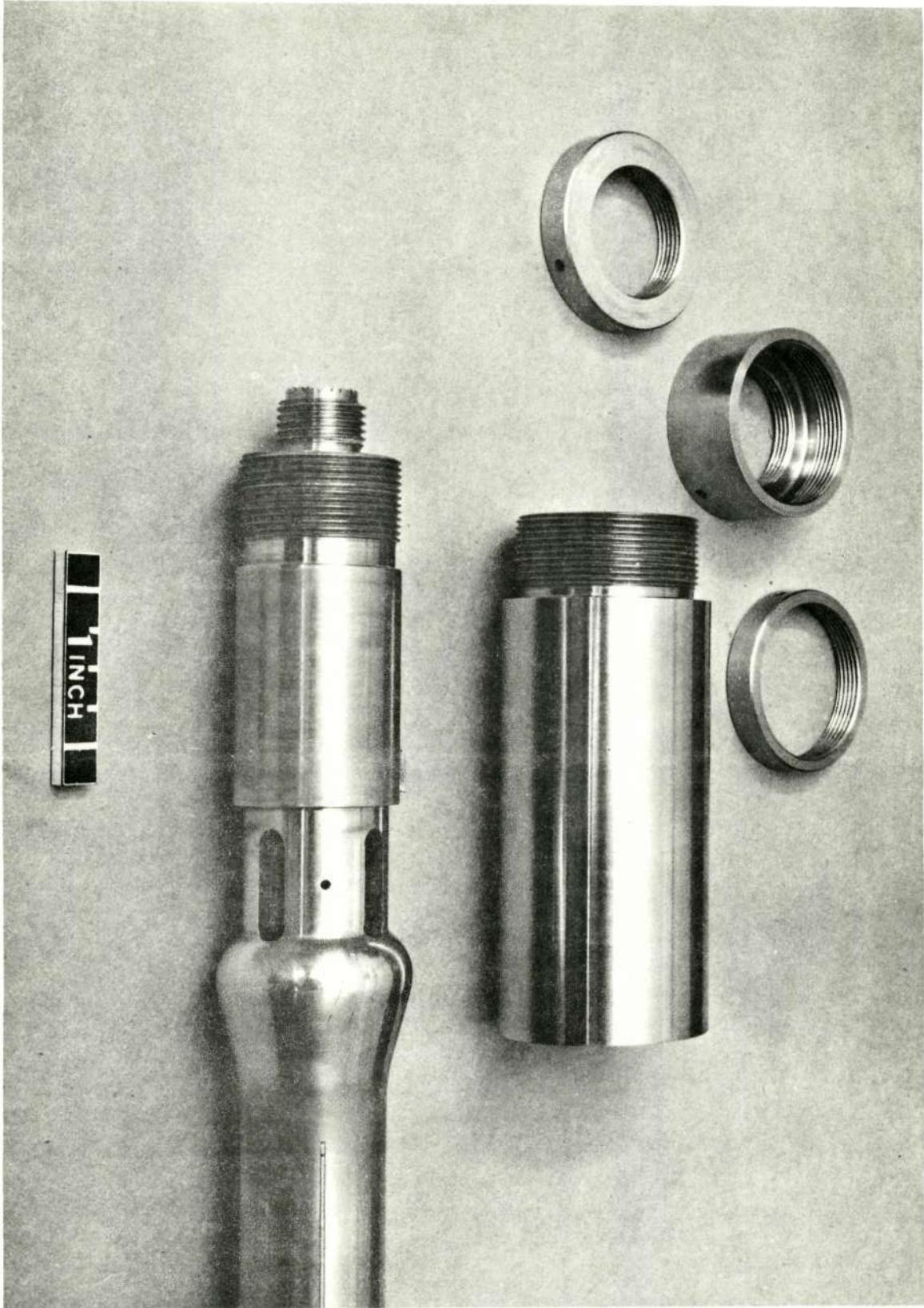


3901 (5-14-71) VAL163 SPACE SHUTTLE NOZZLES
Figure 10. Photograph of Booster and Orbiter Sting Nozzle Hardware

3895

(5-14-71) VA1163 SPACE SHUTTLE NOZZLES

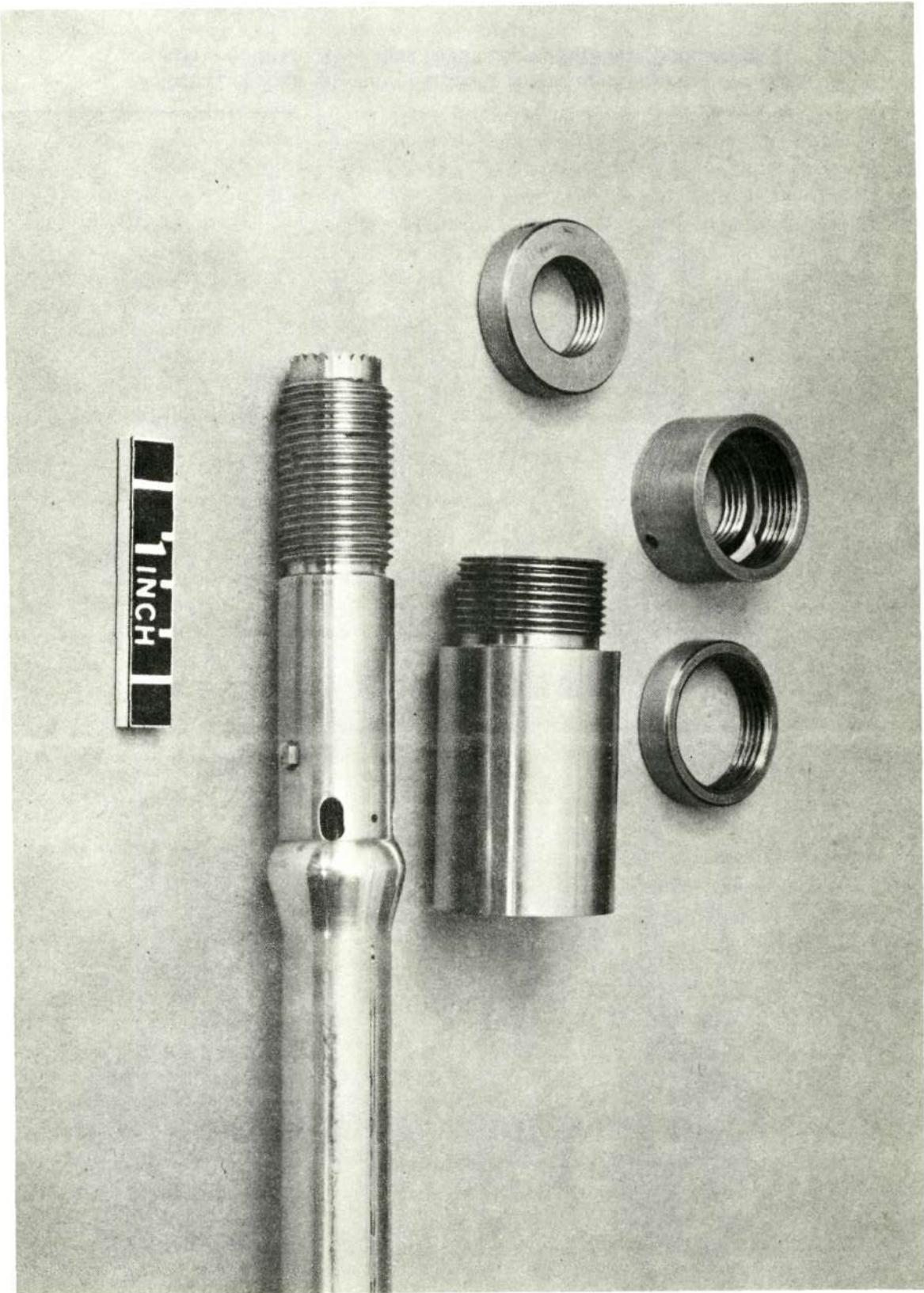
Figure 11. Photograph of Booster Nozzle Hardware



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AER INC. OPERATING CONTRACTOR
AMARILLO, TEXAS
STATION TECN.

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(5-14-71) VAL163 SPACE SHUTTLE NOZZLES | Figure 12. Photograph of Orbiter Nozzle Hardware



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AEROMARINE CONTRACTOR
AEROMARINE
A.F. STATION THINN.

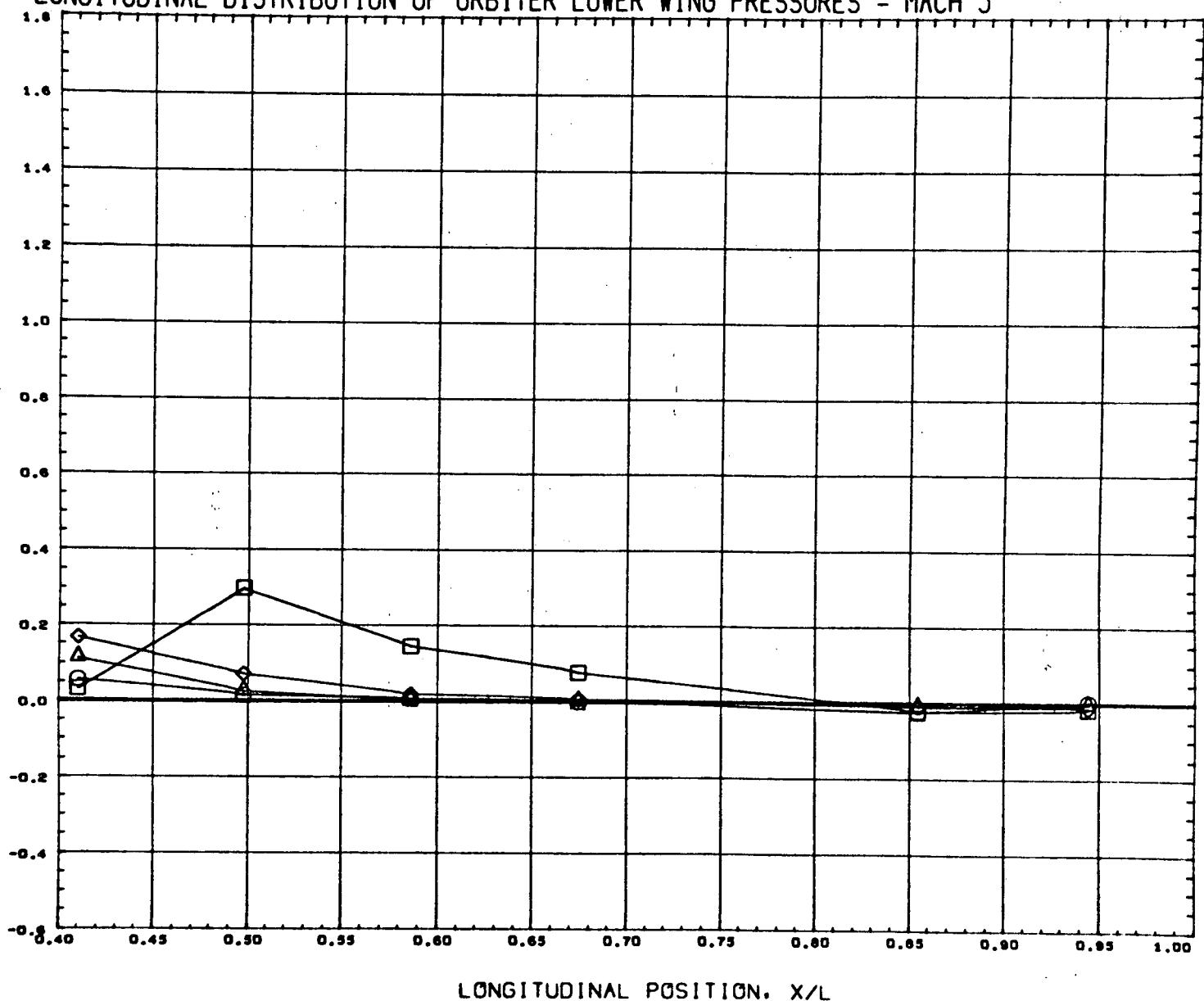
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D A T A F I G U R E S

Tabulations of the plotted data and corresponding source data are available from SADSAC Operations.

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION, X/L

SYMBOL	DELTAX	Y/B	DELTAZ
○	0.041	0.230	0.114
△	0.103		
◊	0.165		
□	0.350		

PARAMETRIC VALUES			
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ALPHAI		0.000	ORBPOW
BSTPOW		0.000	0.000

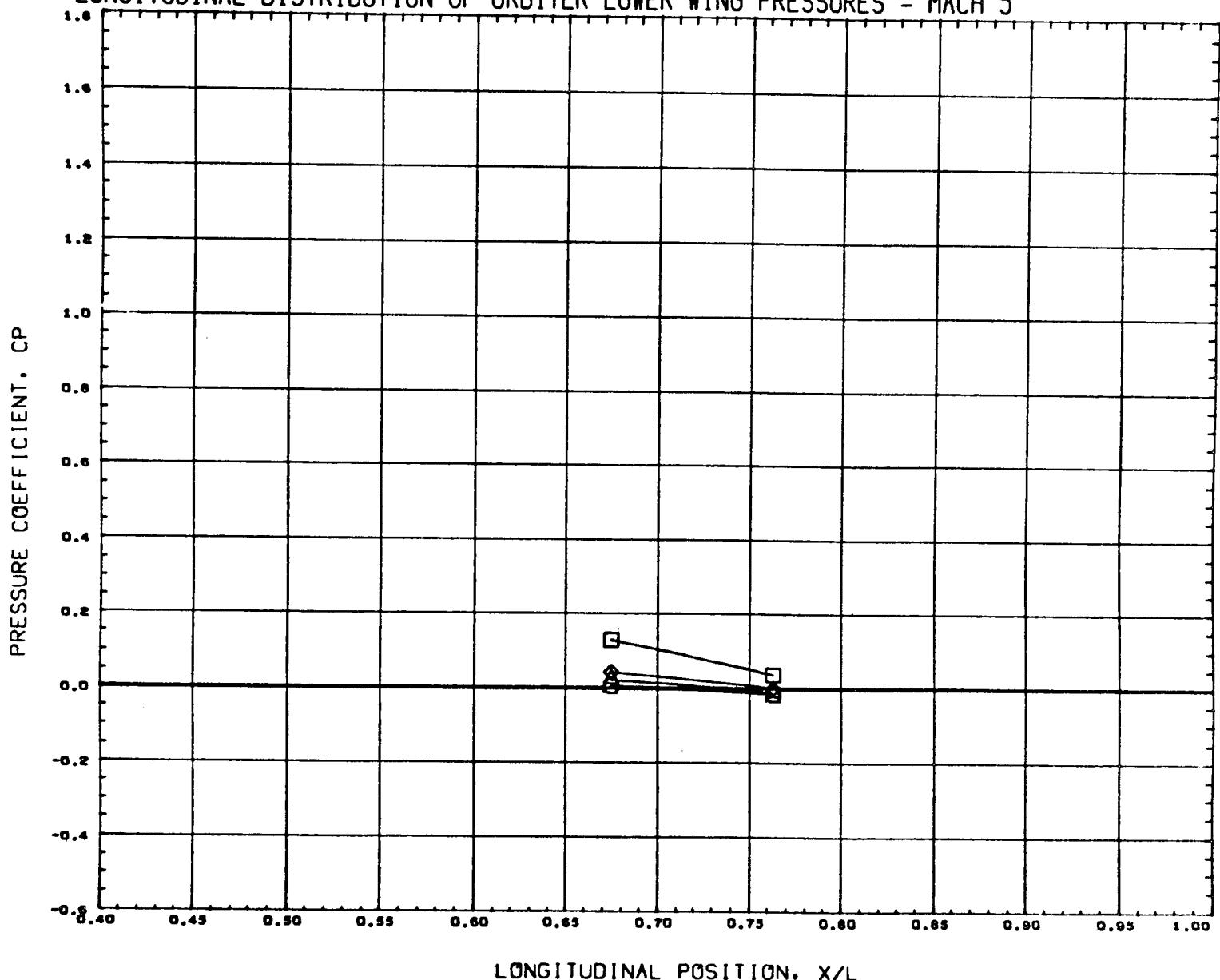
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8511•

PAGE 497

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
\square	0.041	0.399	0.314
\diamond	0.103		
Δ	0.165		
\circ	0.350		

PARAMETRIC VALUES			
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BSTPOM	0.000		

REFERENCE FILE

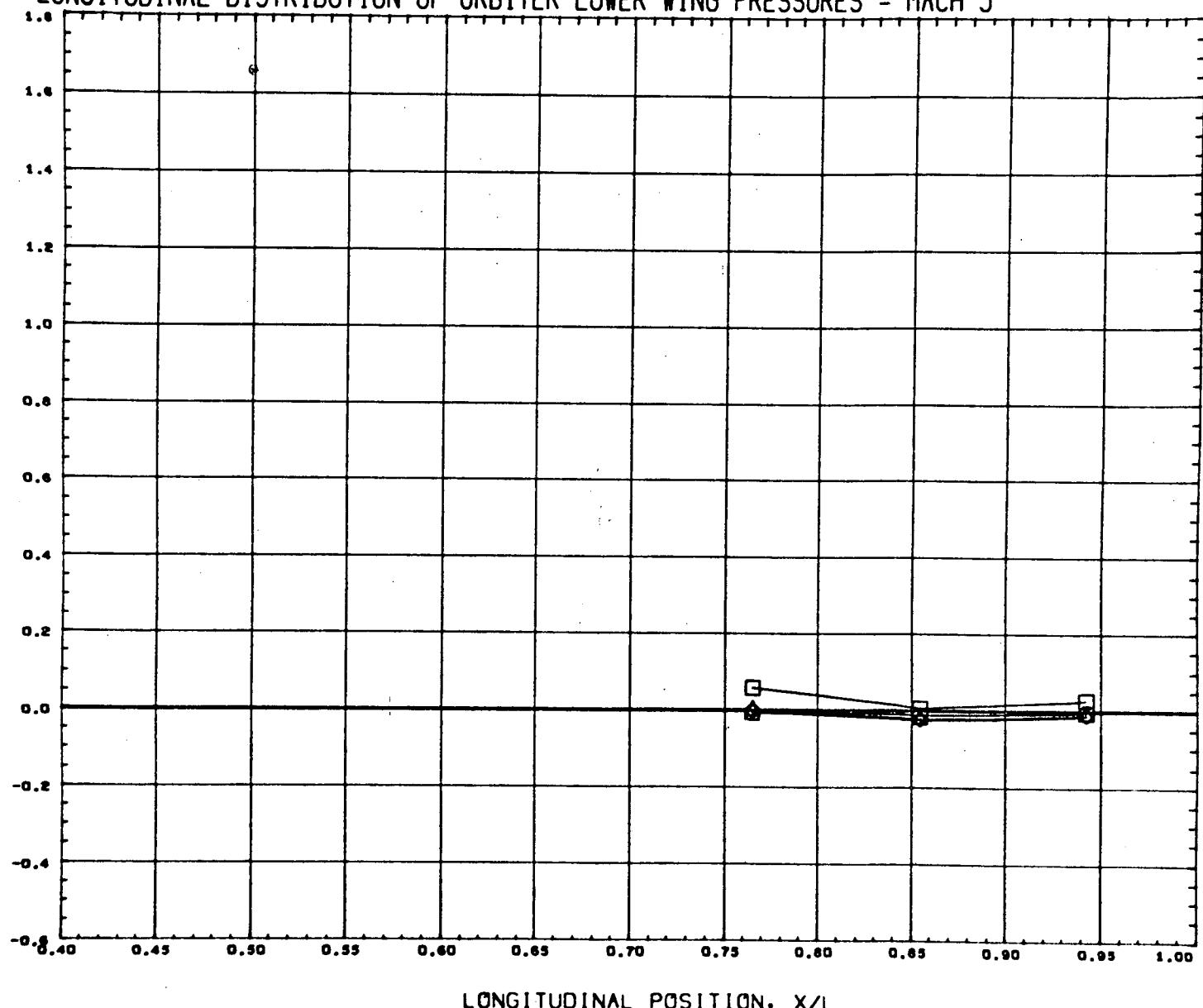
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8511•

PAGE 498

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



LONGITUDINAL POSITION. X/L

SYMBOL	DELTA X	T/B	DELTA Z
△	0.041	0.568	0.114
◇	0.103		
□	0.165		
◆	0.350		

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BSTPOW	0.000		

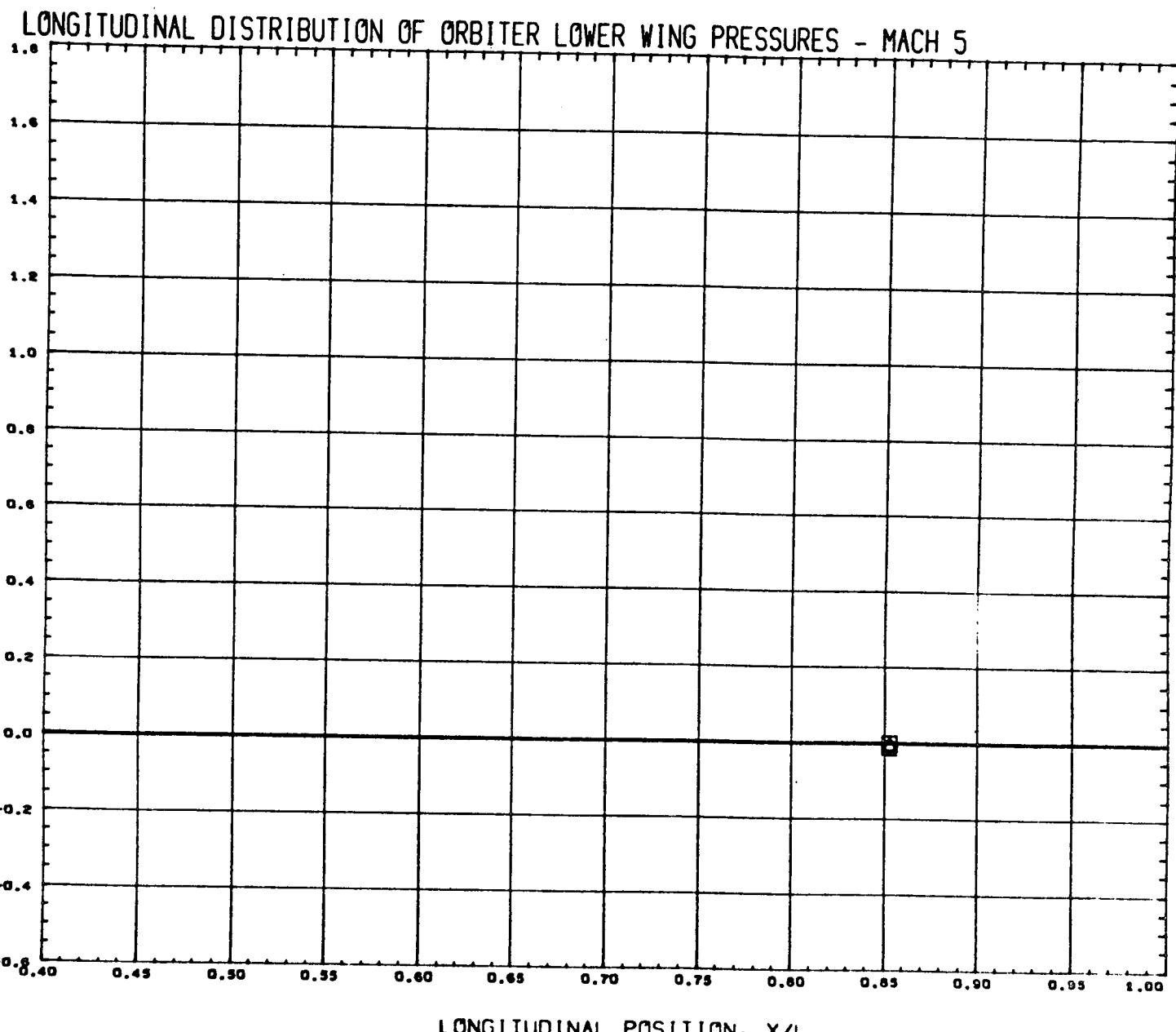
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AEDC VAI163 MDAC ORBITER (LOWER WING)

•HT8511•

PAGE 499

PRESSURE COEFFICIENT. CP



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◇	0.103		
○	0.165		
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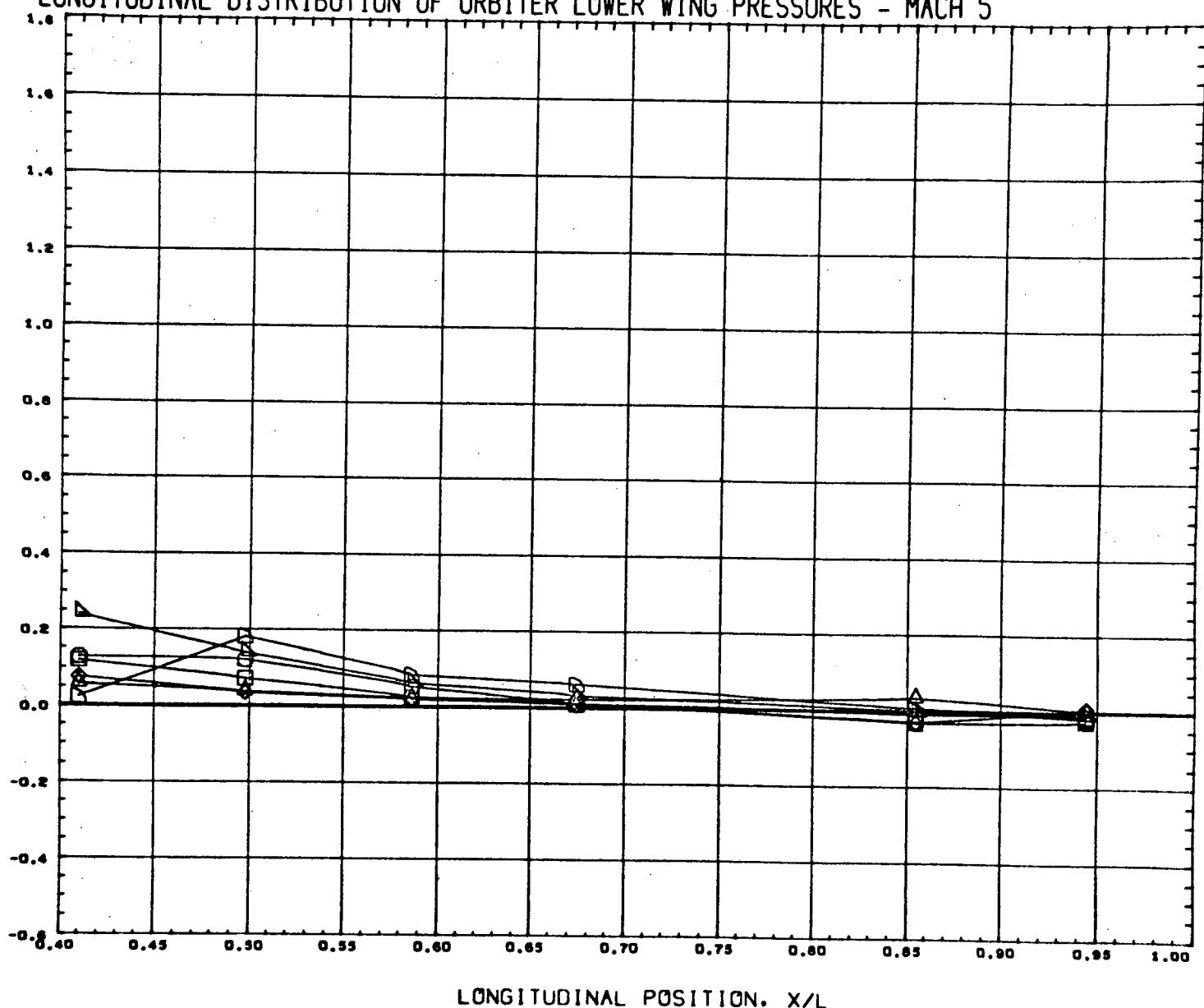
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8511•

PAGE 500

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION. X/L

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0.350			

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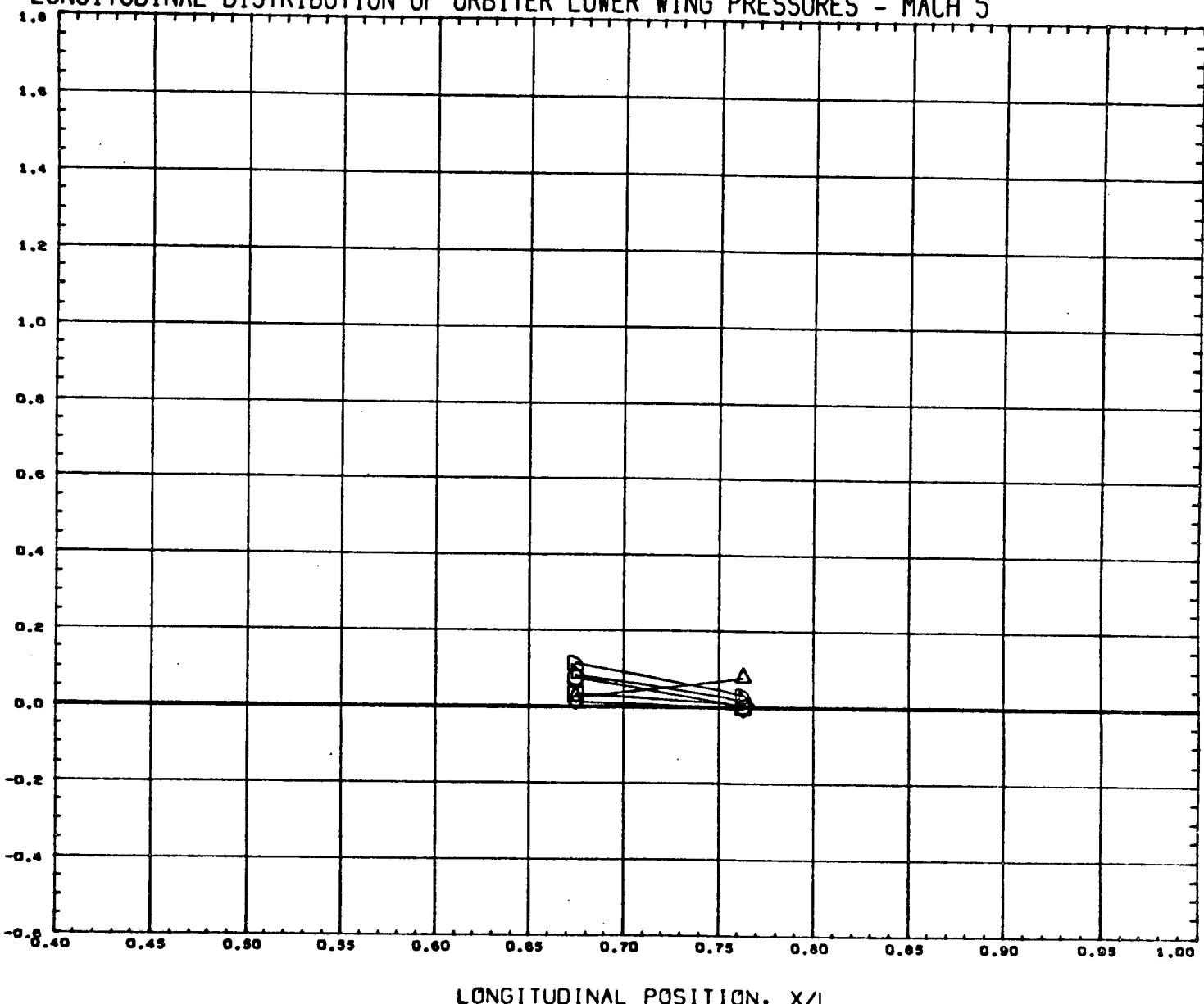
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BSTPOW	0.000	

•HT8511•

PAGE 501

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION, X/L

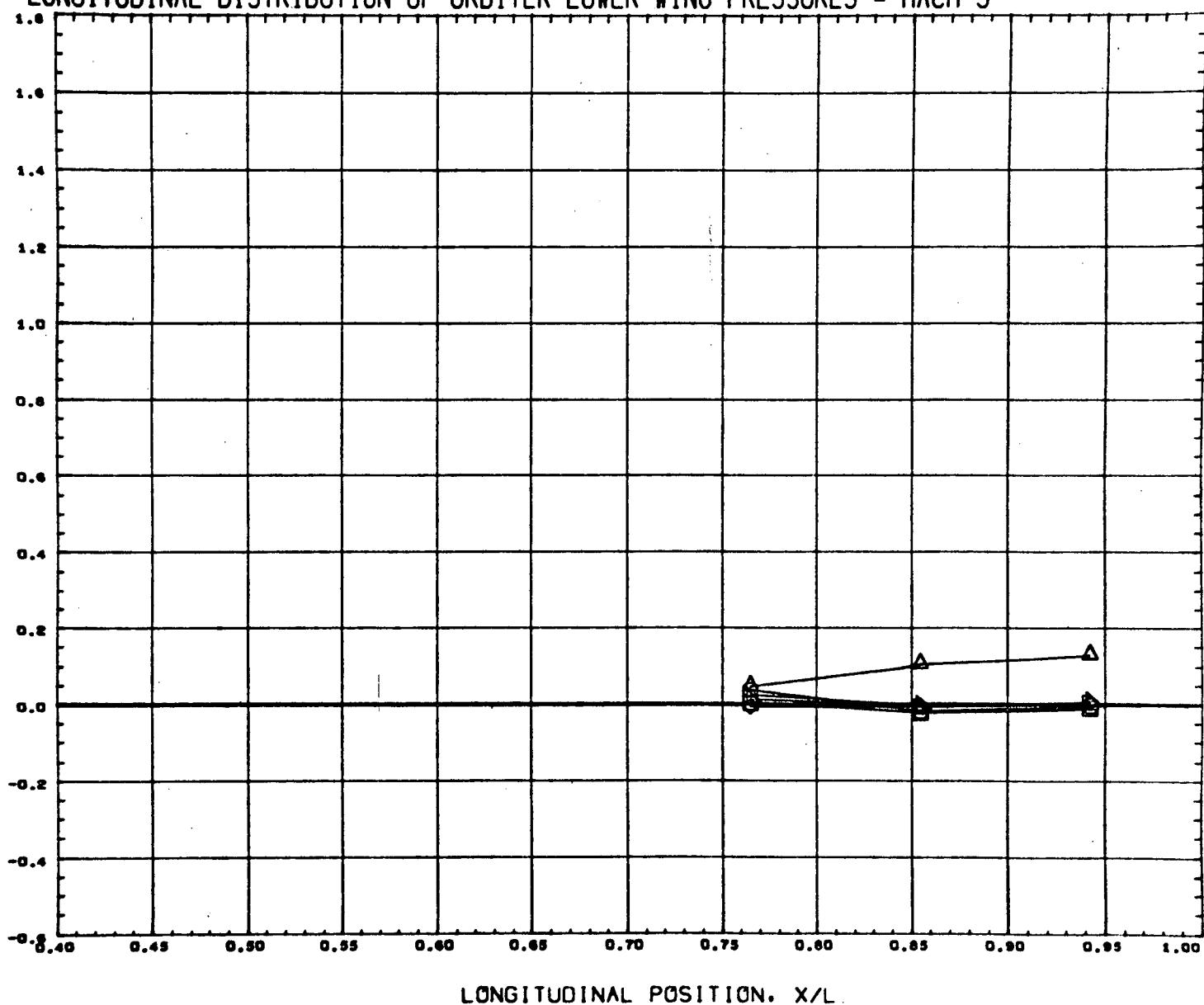
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-	0.020		
○	0.103		
△	0.227		
□	0.350		

REFERENCE FILE

PARAMETRIC VALUES		
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ALPHAI	0.000	ORBPOW 0.000
BSTPOW	0.000	

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



LONGITUDINAL POSITION. X/L.

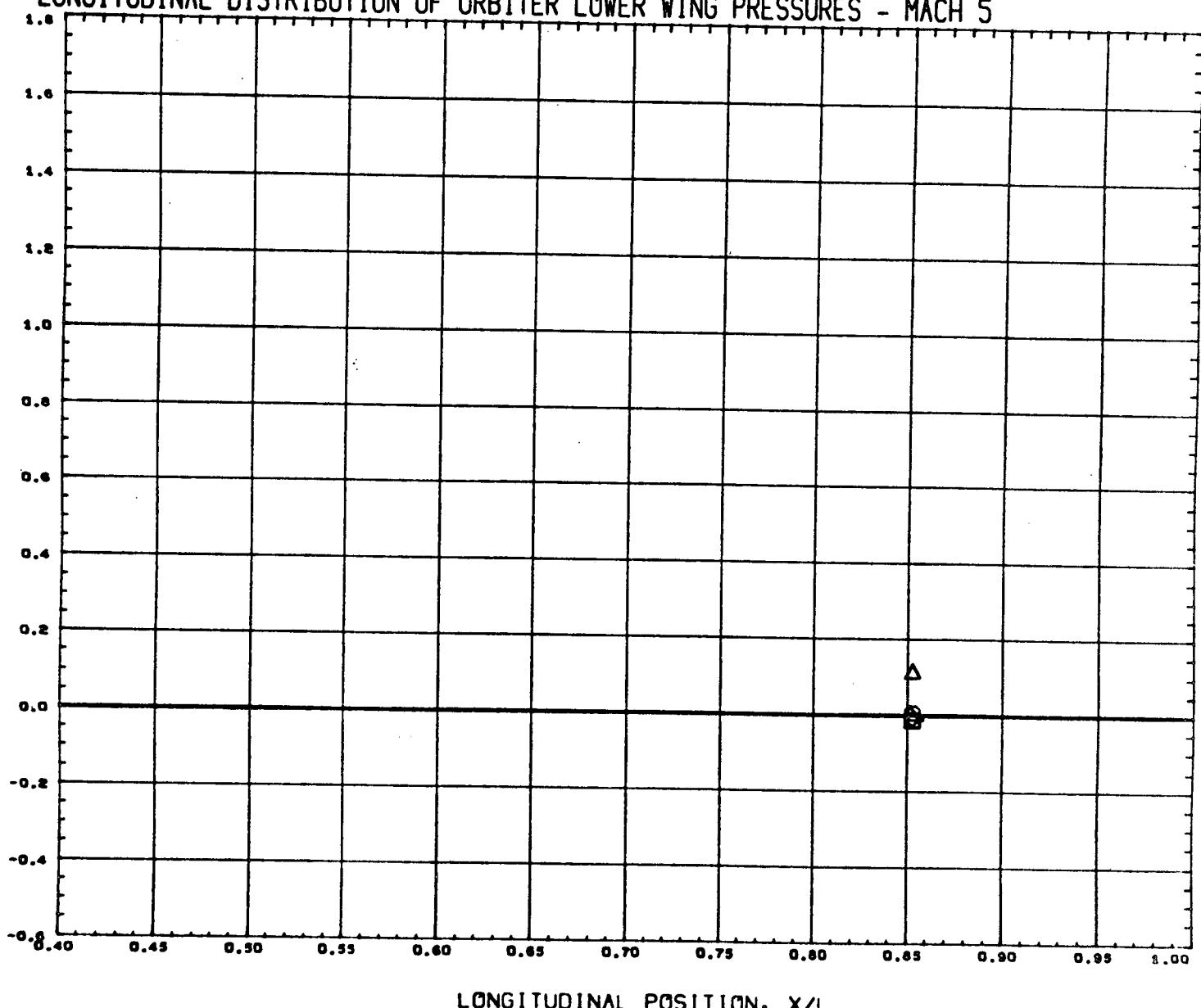
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REFERENCE FILE

PARAMETRIC VALUES		
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ALPHAI	0.000	ORBFOW 0.000
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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



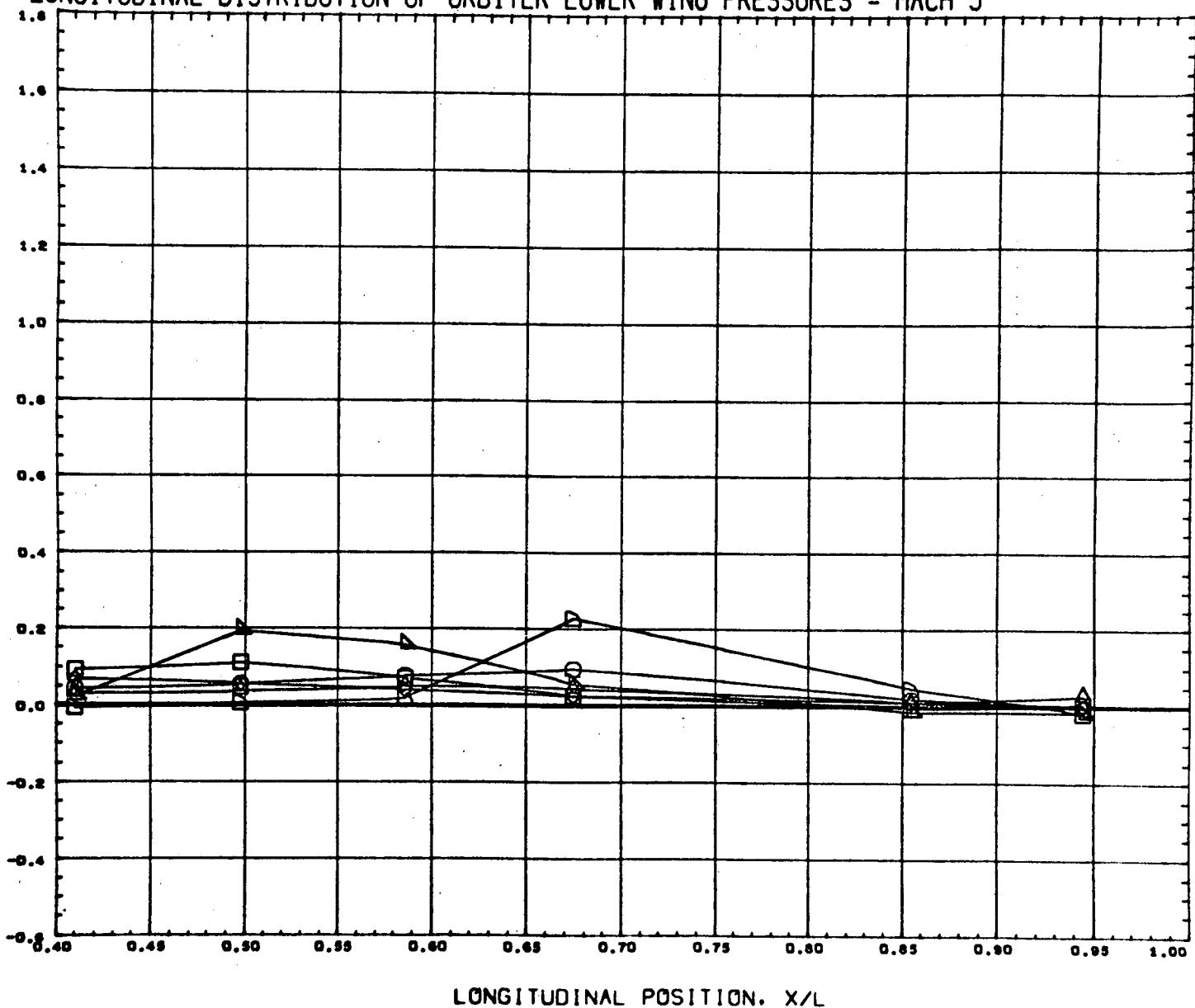
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 D 0.143
 D 0.020
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 D 0.390 REFERENCE FILE

LONGITUDINAL POSITION, X/L

PARAMETRIC VALUES				
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ALPHAI		0.000	ORBPOW	0.000
BSTPOW		0.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



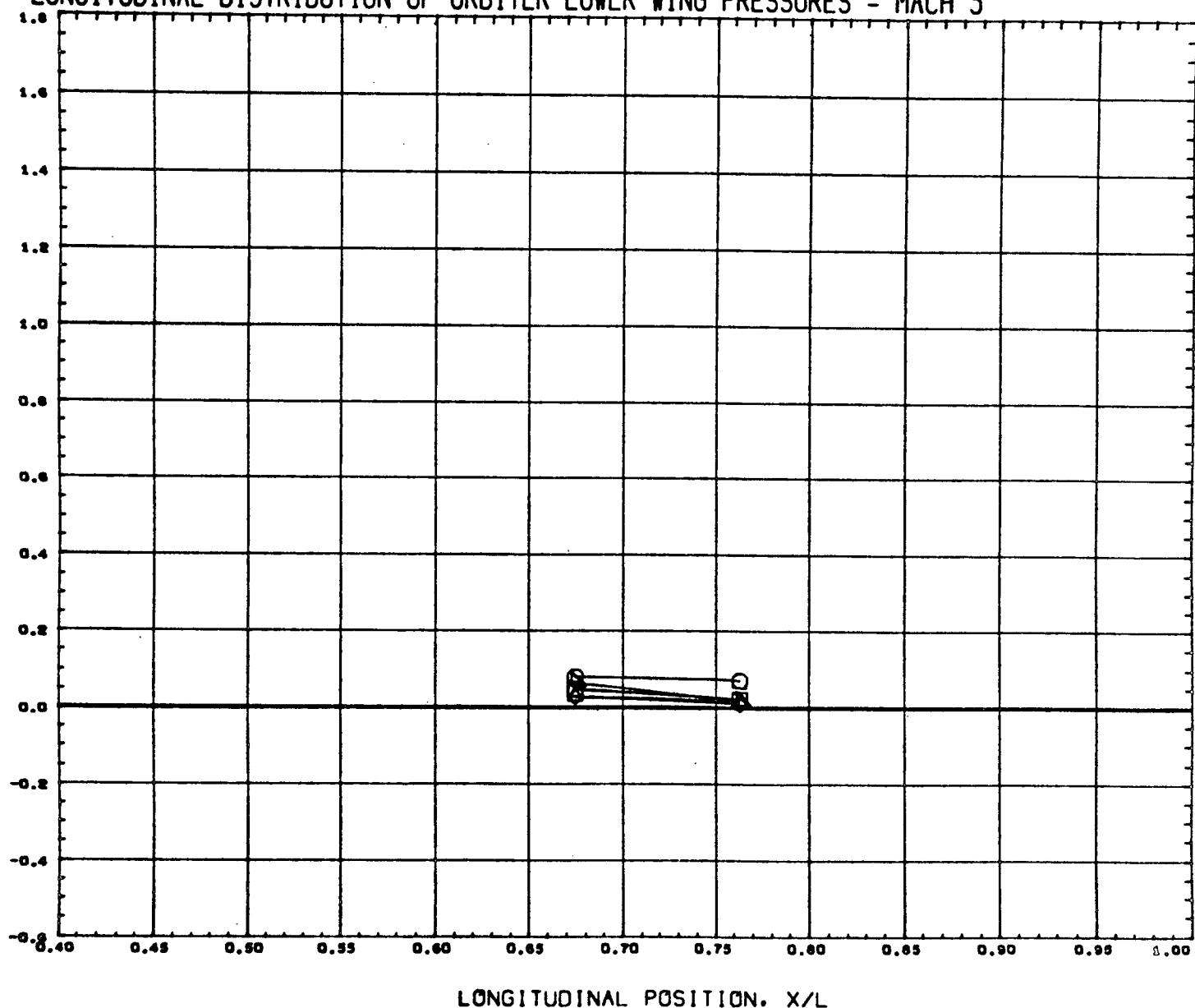
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LONGITUDINAL POSITION. X/L

PARAMETRIC VALUES			
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ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION, X/L

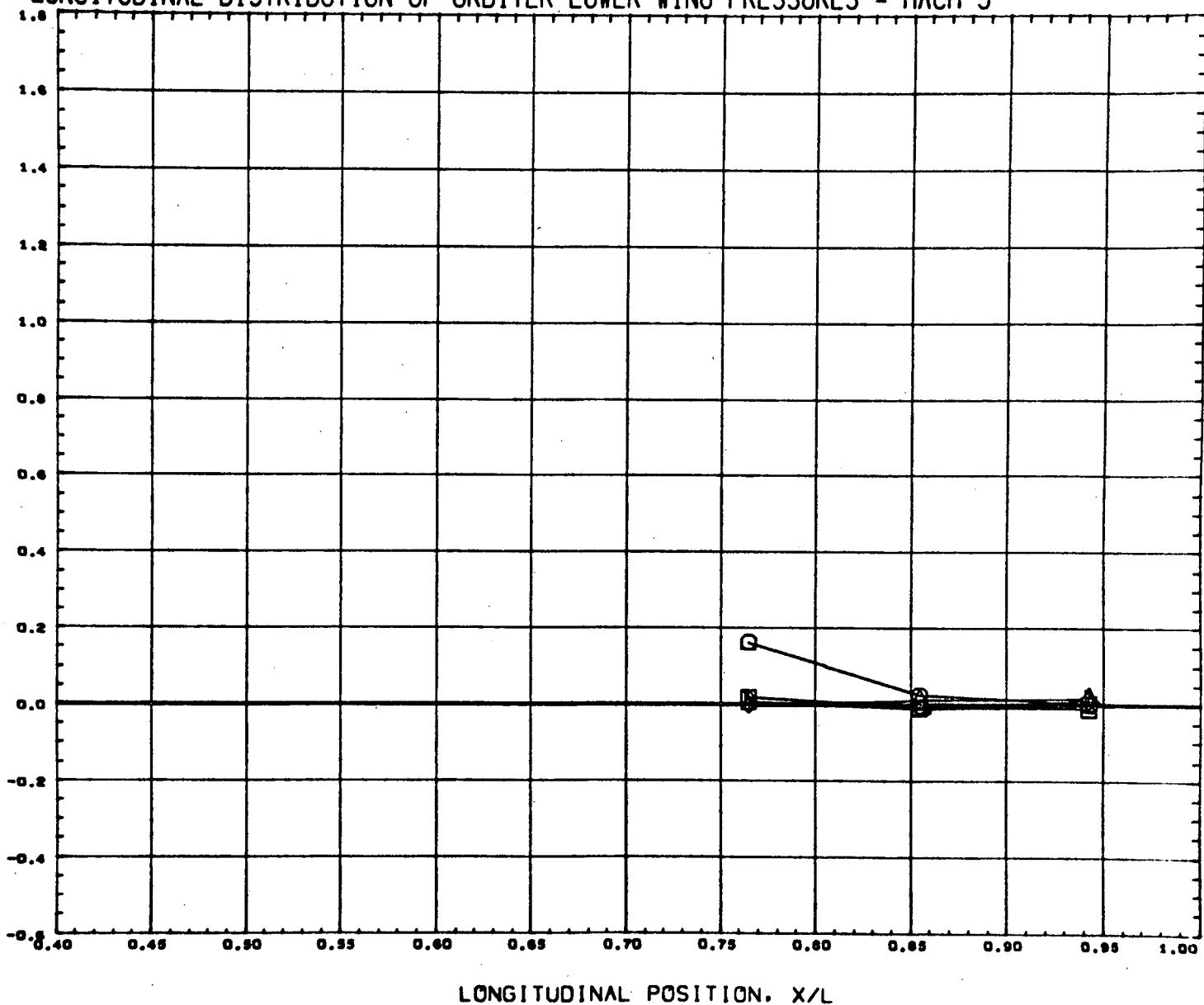
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◆	0.227		
□	0.390		

REFERENCE FILE

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ALPHAT	0.000		0.000
BSTPOW	0.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION, X/L

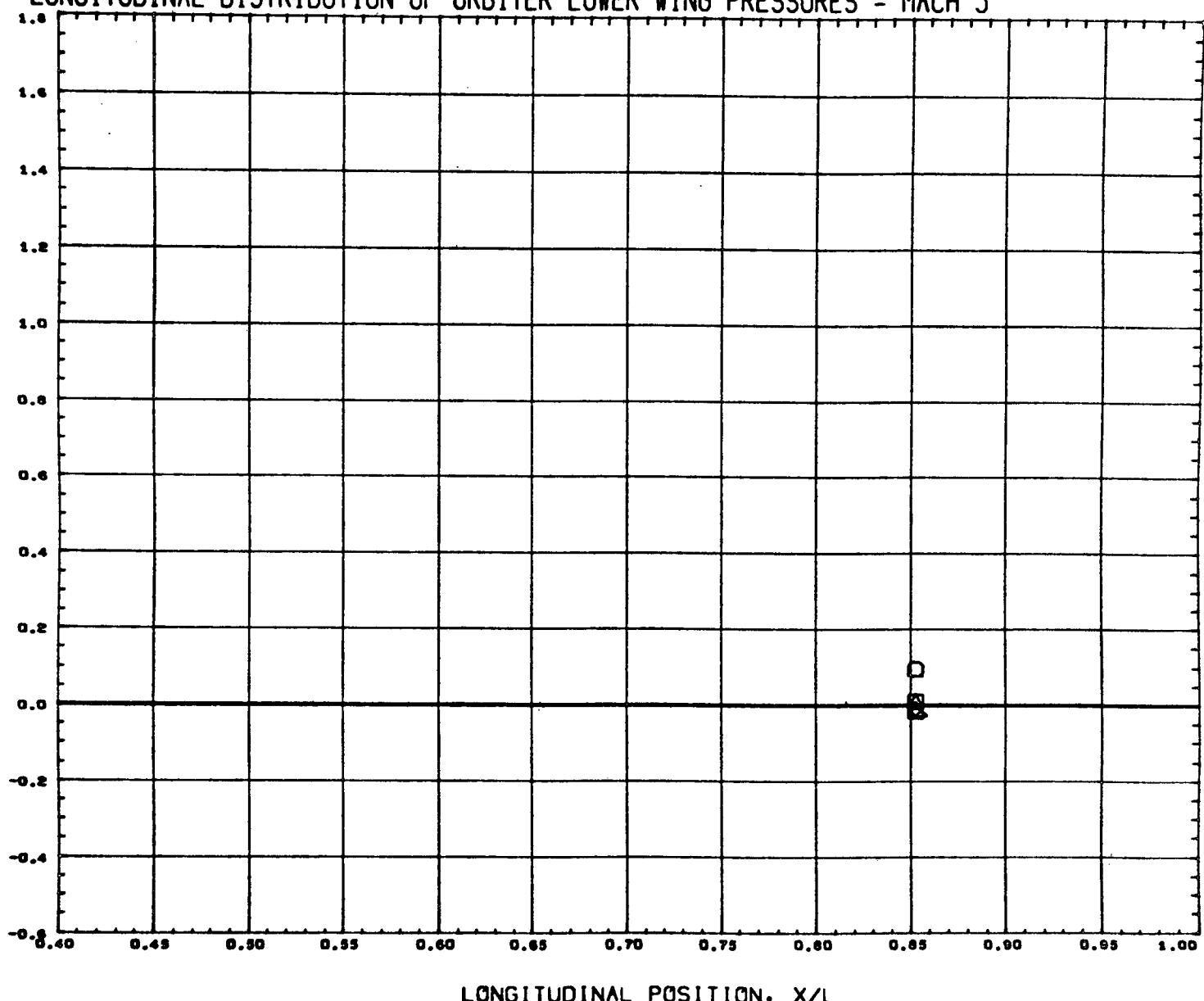
SYMBOL	DELTA X	Y/B	DELTA Z
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-	0.143		
-	0.020		
-	0.103		
-	0.227		
-	0.390		

REFERENCE FILE

PARAMETRIC VALUES		
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ALPHAT	0.000	MACH
BSTPOW	0.000	ORBPOW

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



LONGITUDINAL POSITION. X/L

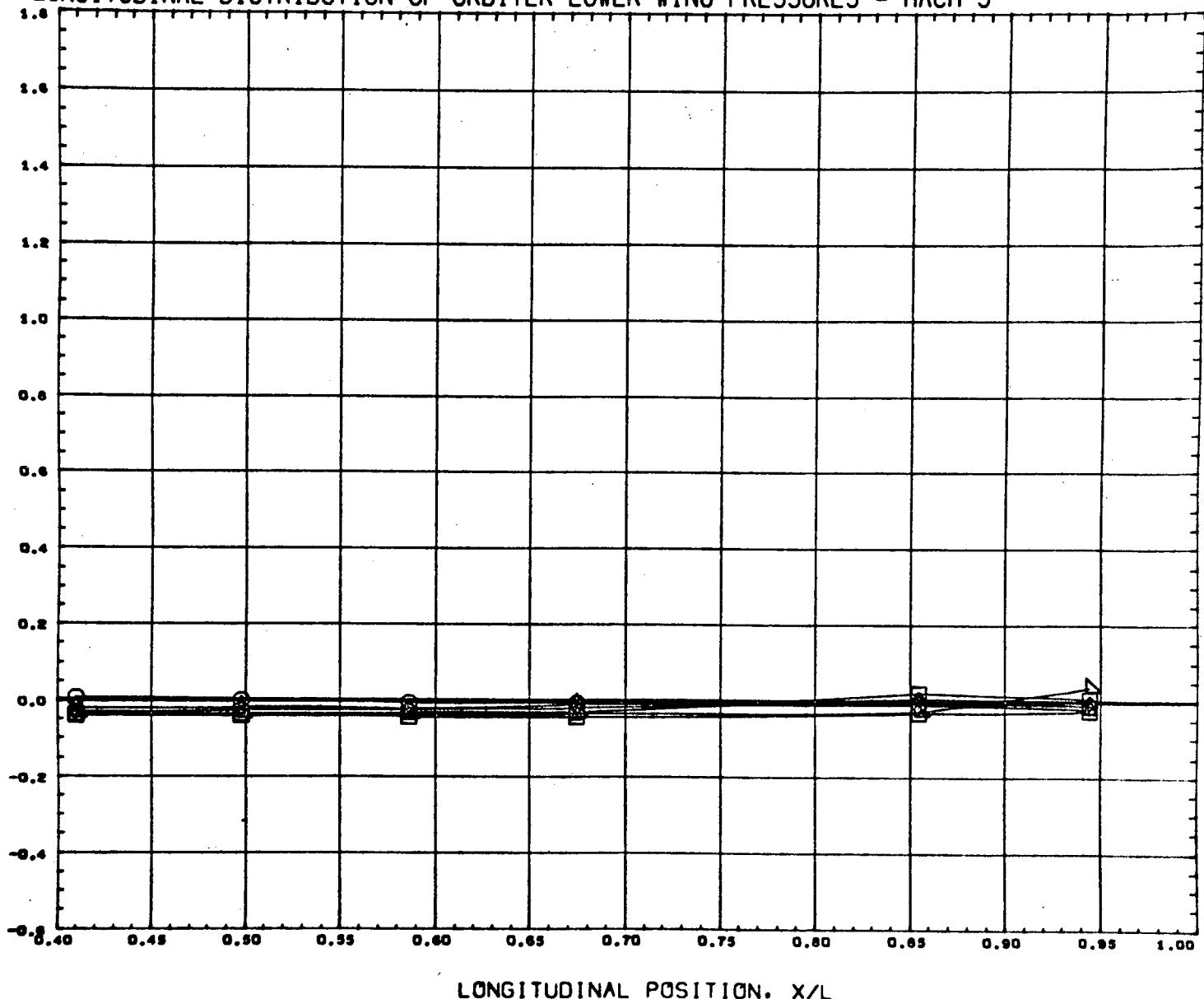
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-	0.143		
-	0.020		
	0.103		
	0.227		
	0.350		

REFERENCE FILE

PARAMETRIC VALUES		
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BSTPOW	0.000	

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



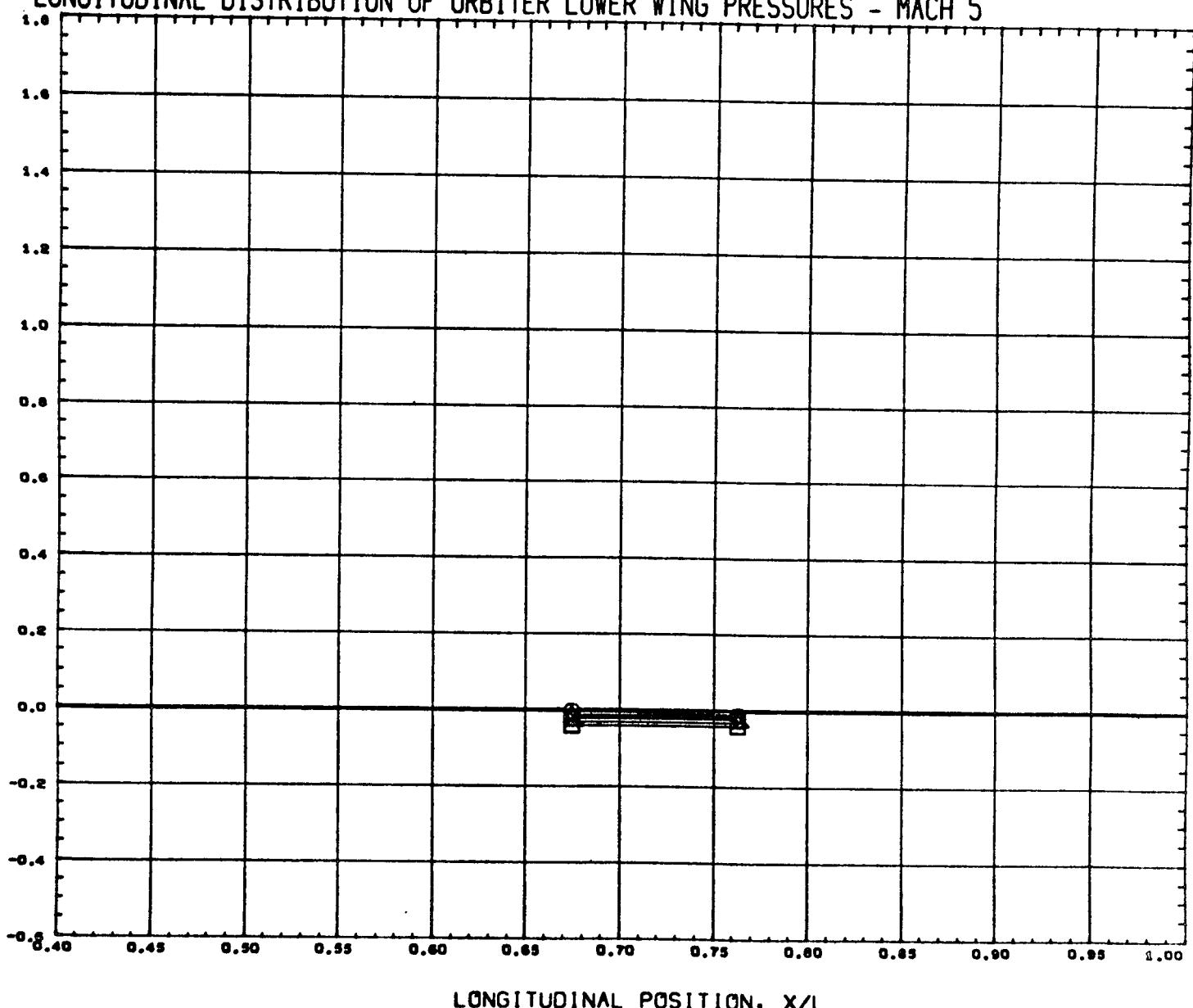
LONGITUDINAL POSITION. X/L

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 - 0.143
 - 0.020
 0.103
 0.227
 0.330 REFERENCE FILE

PARAMETRIC VALUES			
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ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION. X/L

SYMBOL	DELTA X	T/B	DELTA Z
-	0.390	0.390	0.220
-	0.143		
-	0.020		
	0.103		
	0.227		
	0.350		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	-	9.909	MACH
ALPHAI		0.000	ORBPOW
BSTPOW		0.000	

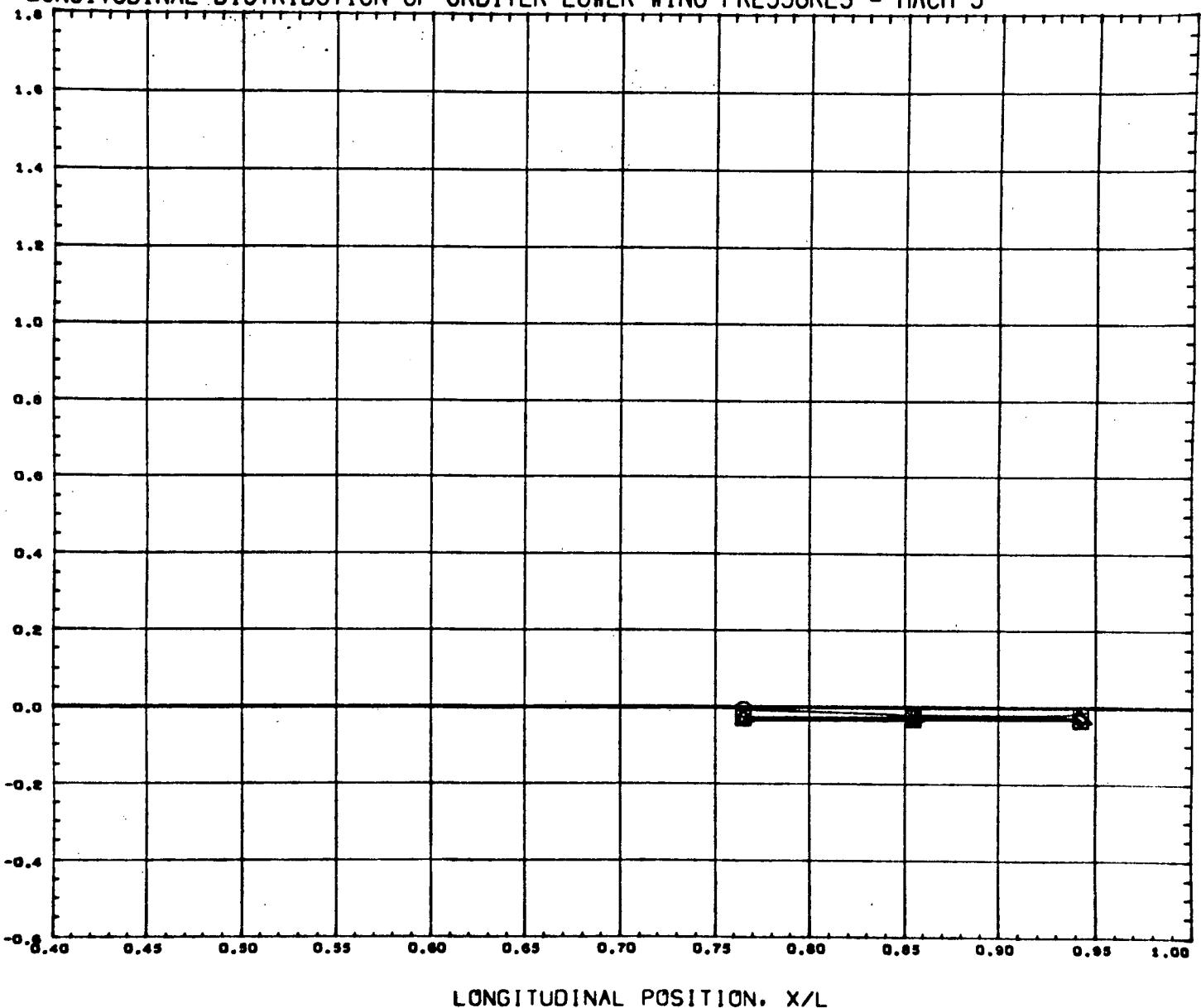
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8511•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



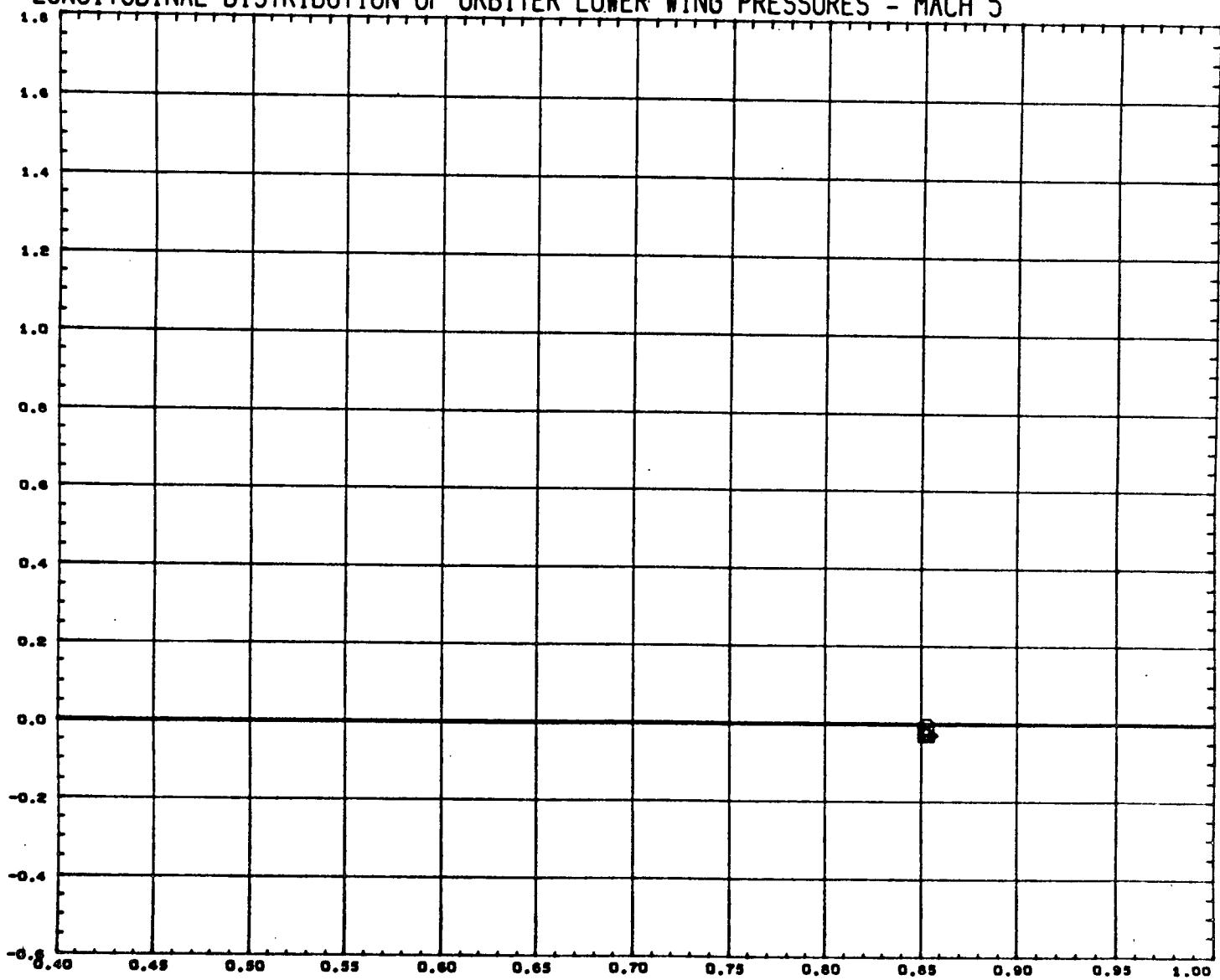
LONGITUDINAL POSITION, X/L

D D D D D
SYMBOL DELTAX Y/B DELTAZ
- 0.390 0.360 0.228
- 0.143
- 0.020
0.103
0.227
0.350 REFERENCE FILE

PARAMETRIC VALUES				
ALPHAB	-	9.909	MACH	4.940
ALPHAI		0.000	ORBPOW	0.000
BSTPOW		0.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION, X/L

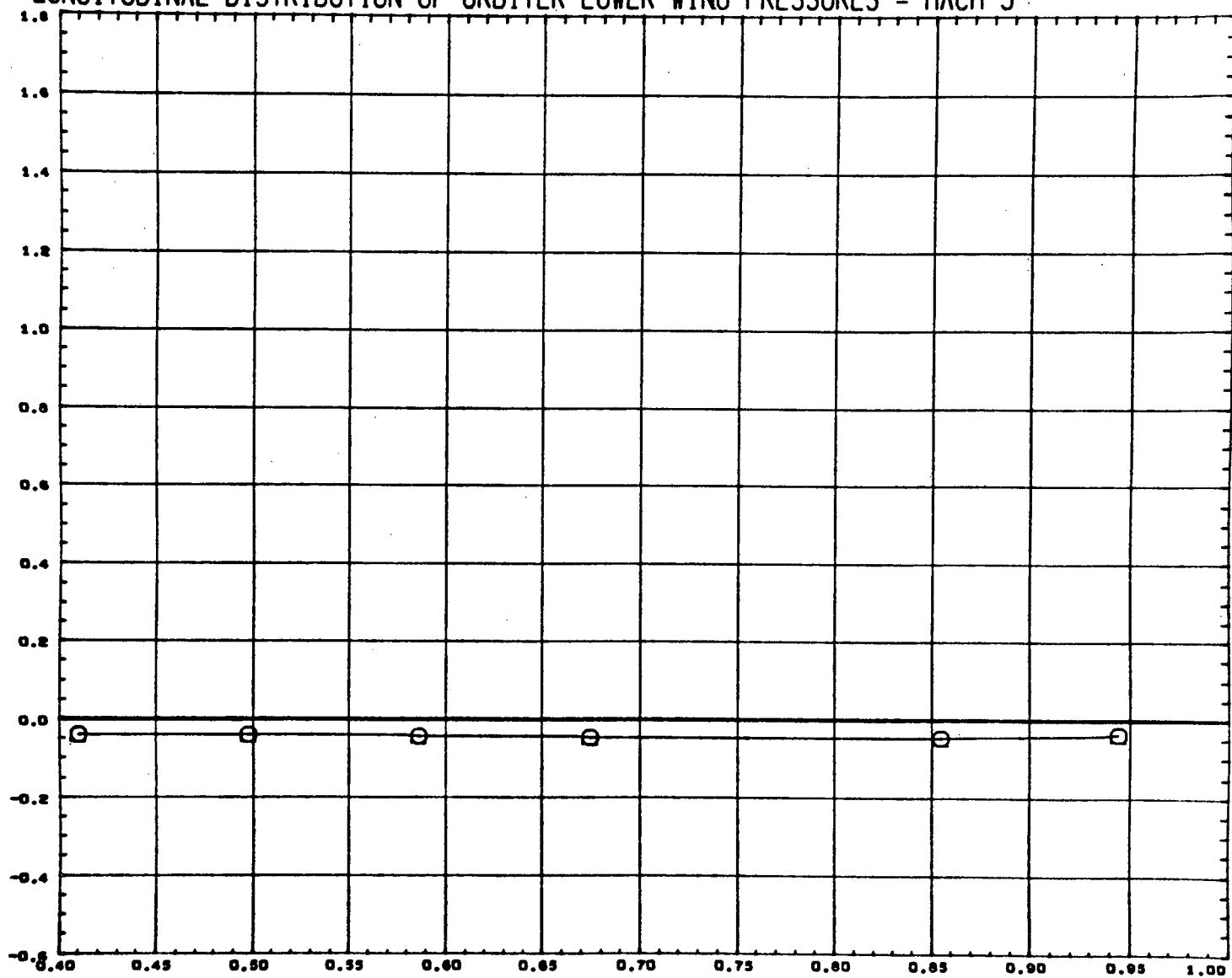
SYMBOL	DELTA X	Y/B	DELTA Z
-	0.390	0.739	0.220
-	0.143		
-	0.020		
	0.103		
	0.227		
	0.350		

REFERENCE FILE

PARAMETRIC VALUES		
ALPHAB	-	9.909
ALPHAT	-	0.000
BSTPOW	-	0.000

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION. X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.520	0.230	0.908

PARAMETRIC VALUES				
ALPHAB	=	9.909	MACH	4.940
ALPHAT	=	0.000	ORBPOW	0.000
BSTPOW	=	0.000		

REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

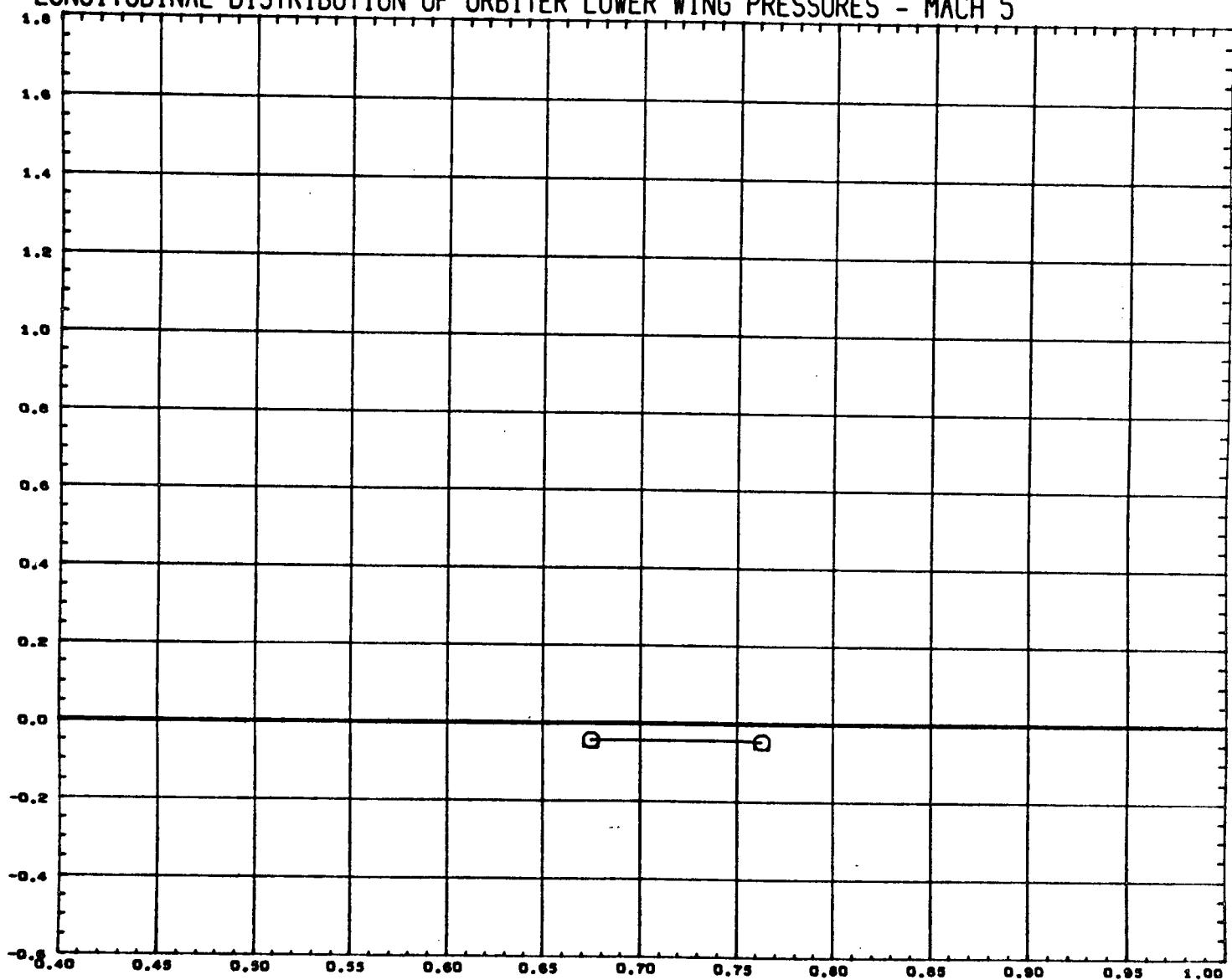
•HT8511•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



SYMBOL DELTAX Y/B DELTAZ
C 0.520 0.399 0.908

LONGITUDINAL POSITION. X/L

	ALPHAB	MACH	4.940
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

REFERENCE FILE

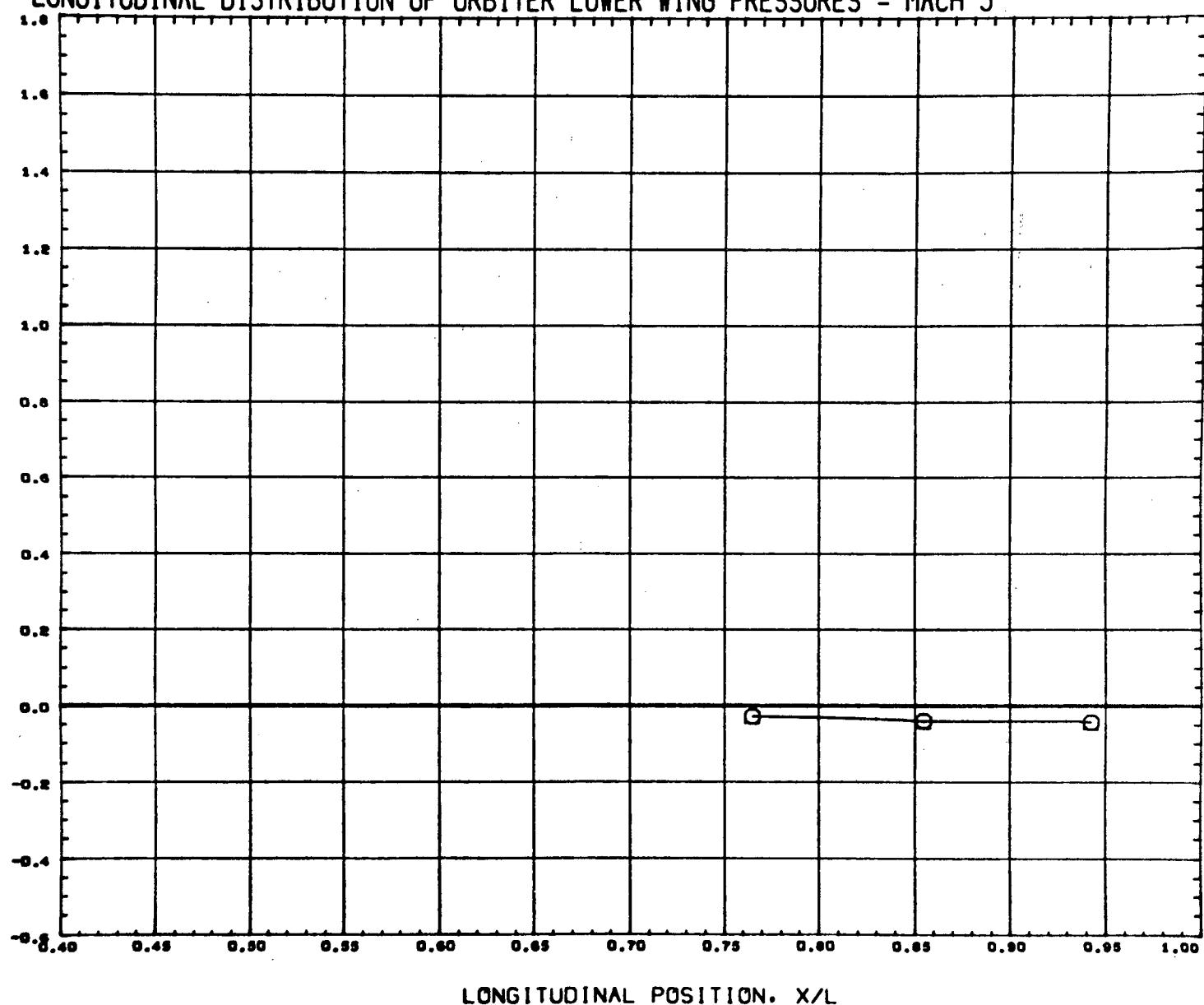
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8511•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL DELTAX Y/B DELTAZ

O 0.920 0.968 0.908

ALPHAB	= 9.909	MACH	4.940
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

REFERENCE FILE

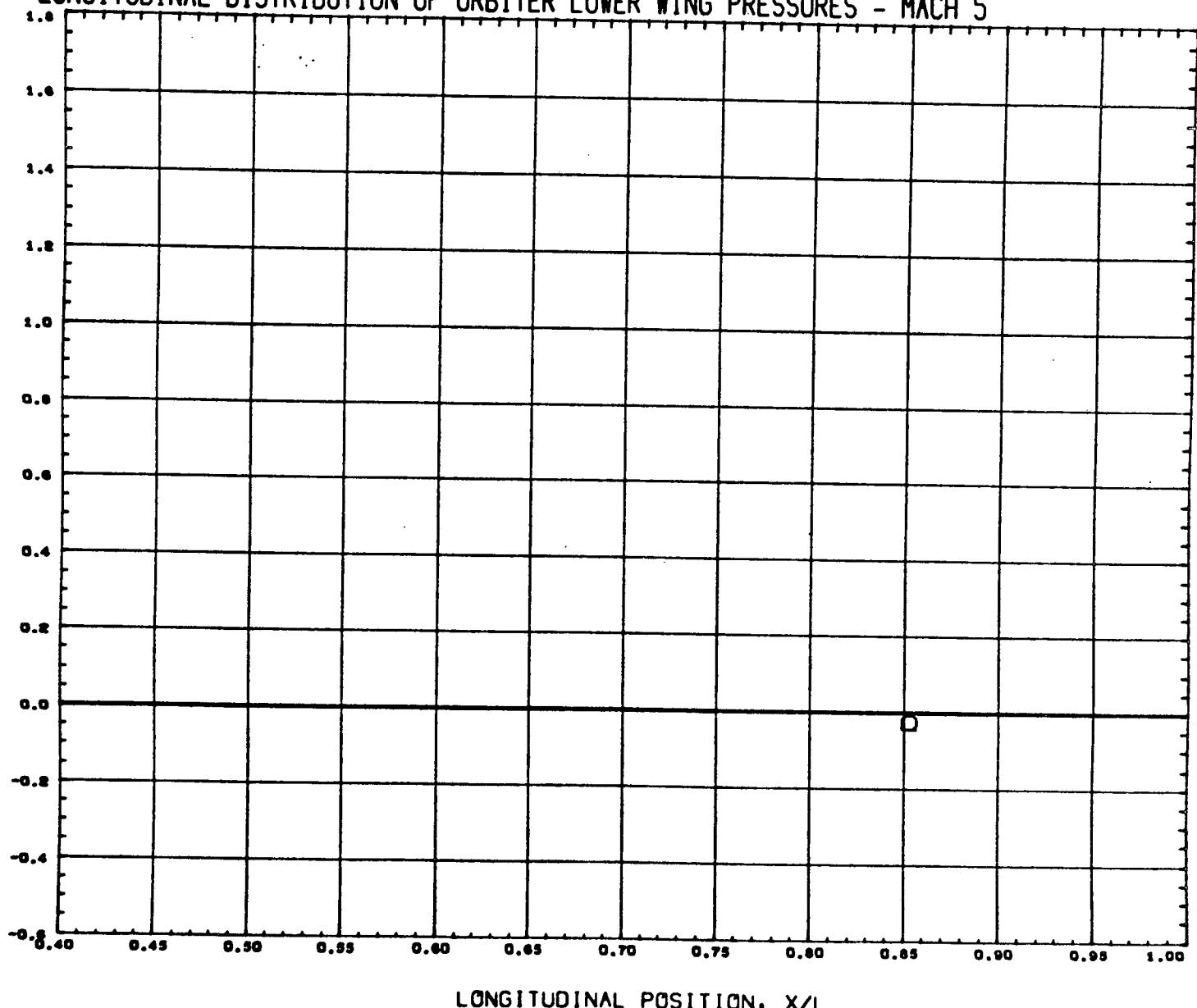
AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL DELTAX Y/B DELTAZ
C 0.520 0.738 0.908

LONGITUDINAL POSITION, X/L

	ALPHAB	MACH	ORBPOW
ALPHAI	0.909	4.940	0.000
BSTPOW	0.000		

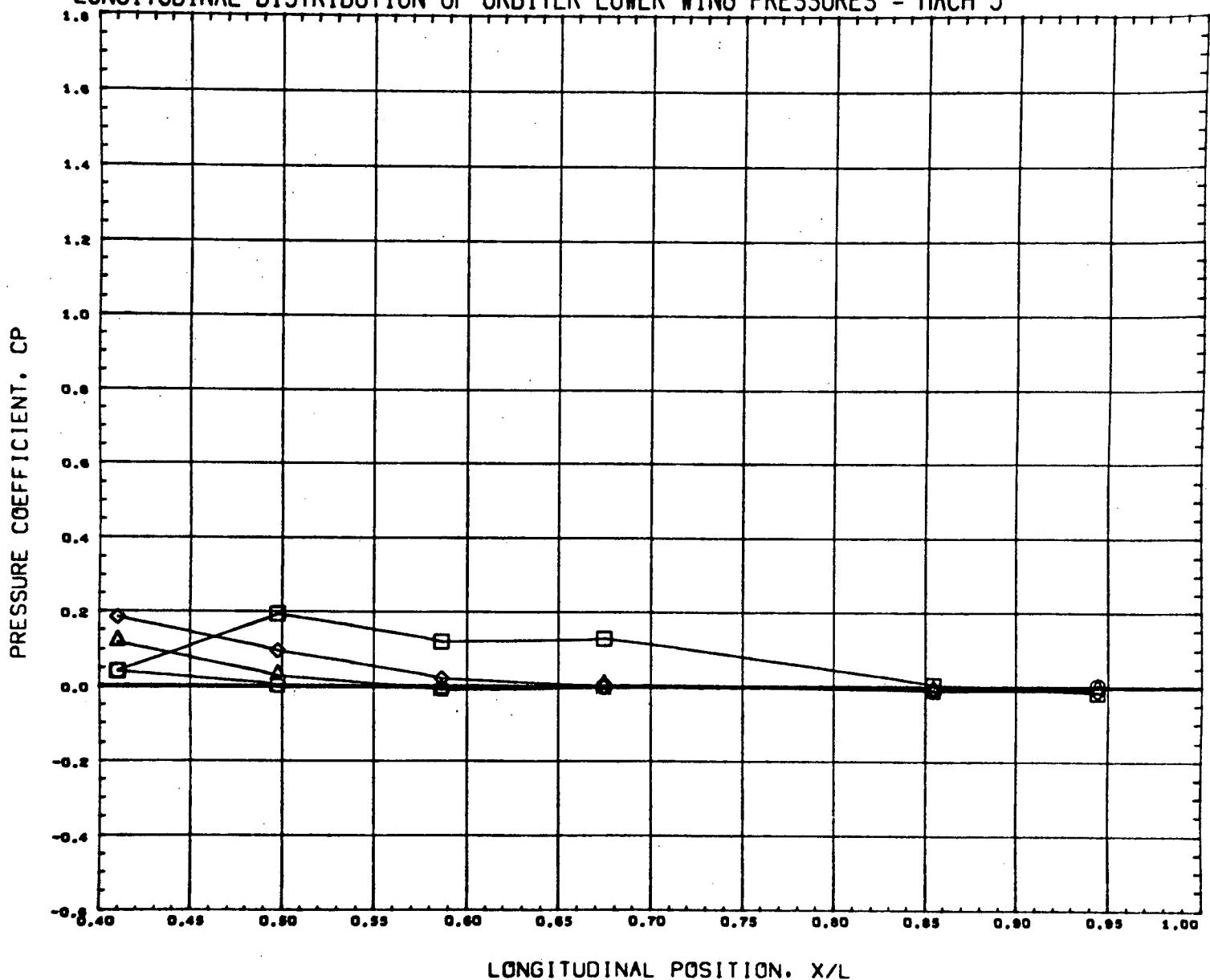
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION. X/L

SYMBOL	DELTA X	Y/B	DELTA Z
\circ	0.041	0.230	0.114
\square	0.103		
Δ	0.169		
\diamond	0.390		

PARAMETRIC VALUES		
ALPHAS	= 4.888	MACH 4.040
ALPHAI	0.000	ORBPOW 0.000
BSTPOW	0.000	

REFERENCE FILE

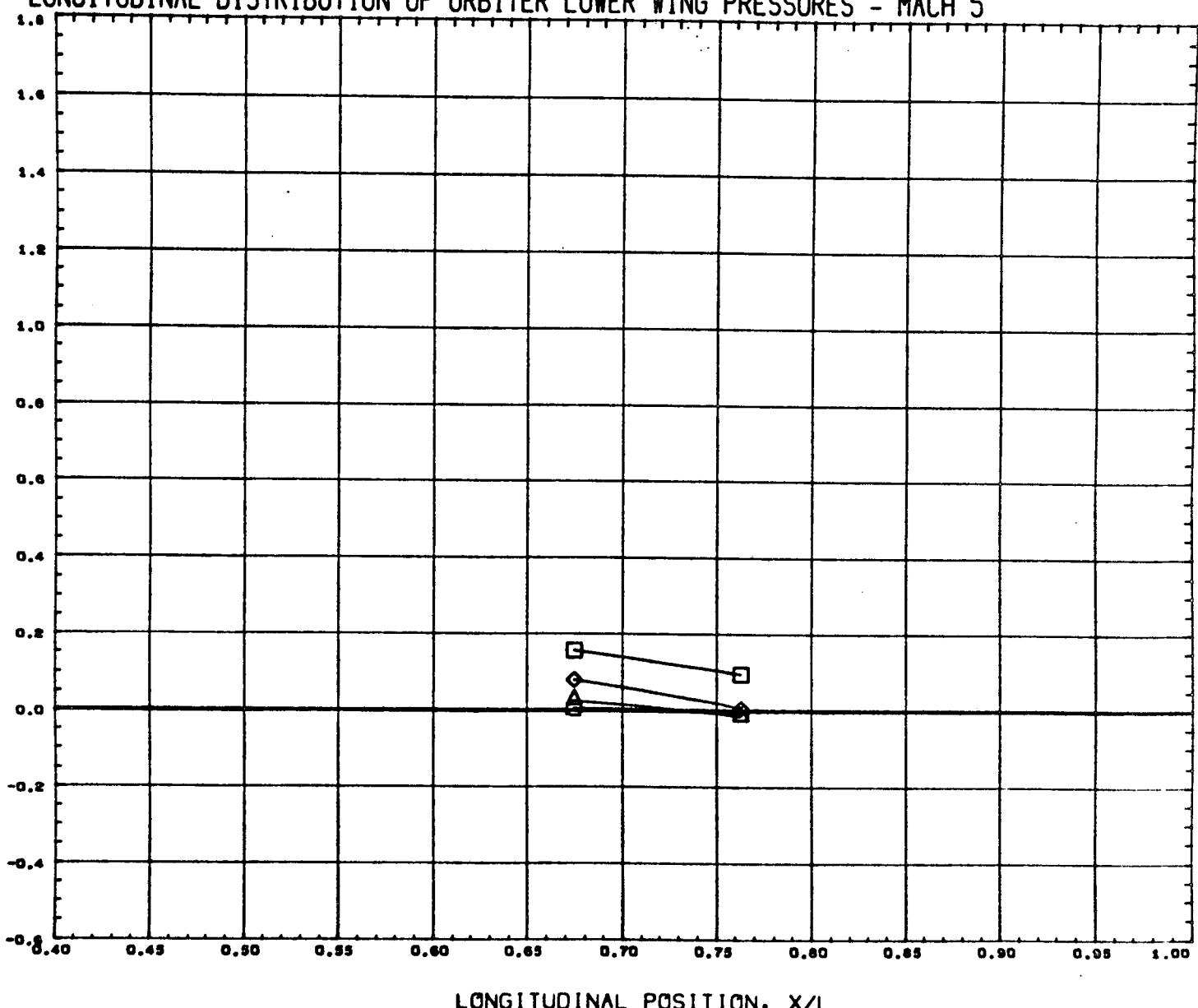
AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.048	0.399	0.114
△	0.103		
□	0.165		
◇	0.330		

PARAMETRIC VALUES			
ALPHAB	- 4.888	MACH	4.940
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

REFERENCE FILE

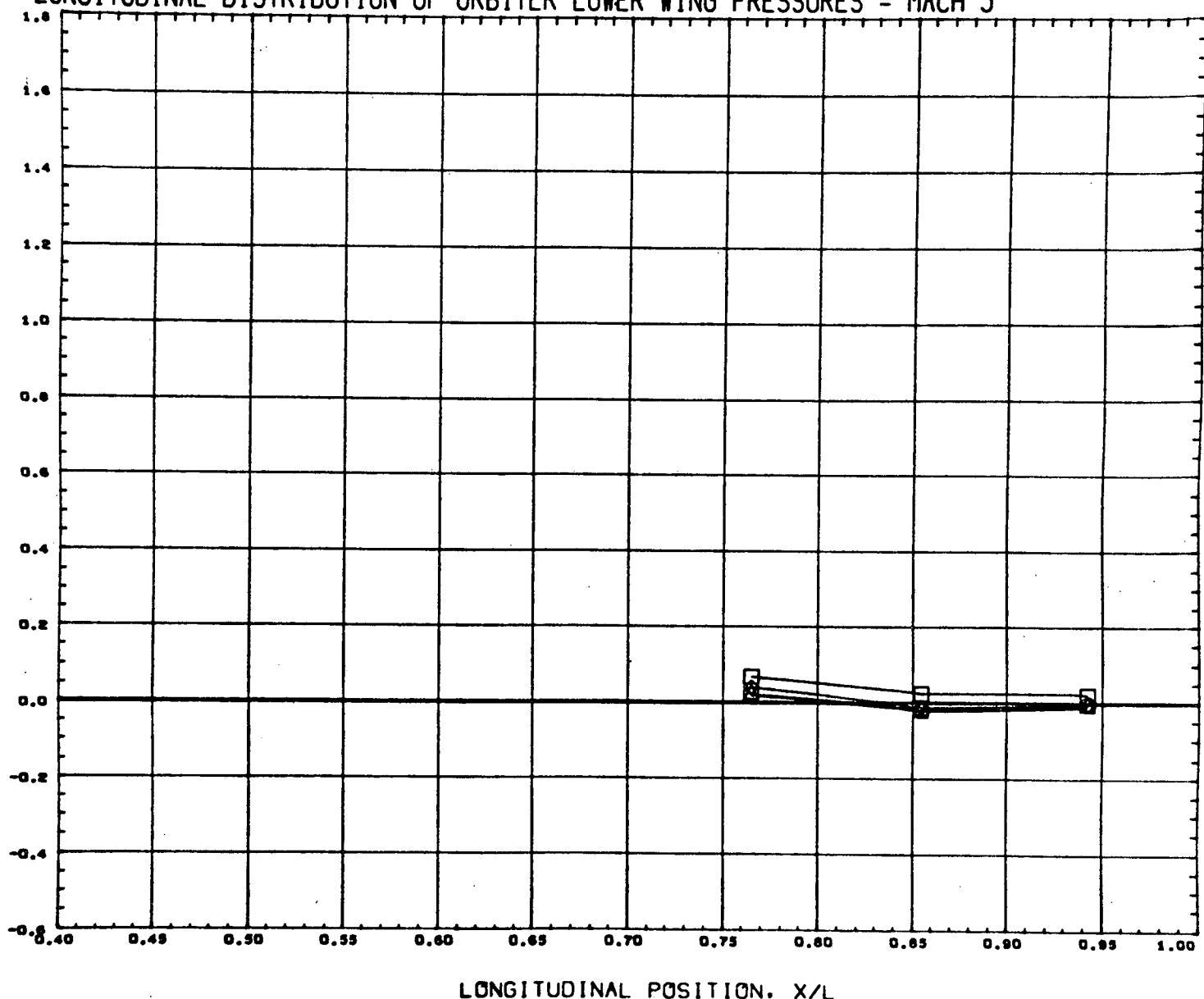
AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION, X/L

SYMBOL DELTAX Y/G DELTAZ
 □ 0.041 0.568 0.114
 ◇ 0.103
 ▲ 0.165
 × 0.380

PARAMETRIC VALUES
 ALPHAB = 4.886 MACH = 4.940
 ALPHAI = 0.000 ORBPOW = 0.000
 BSTPOW = 0.000

REFERENCE FILE

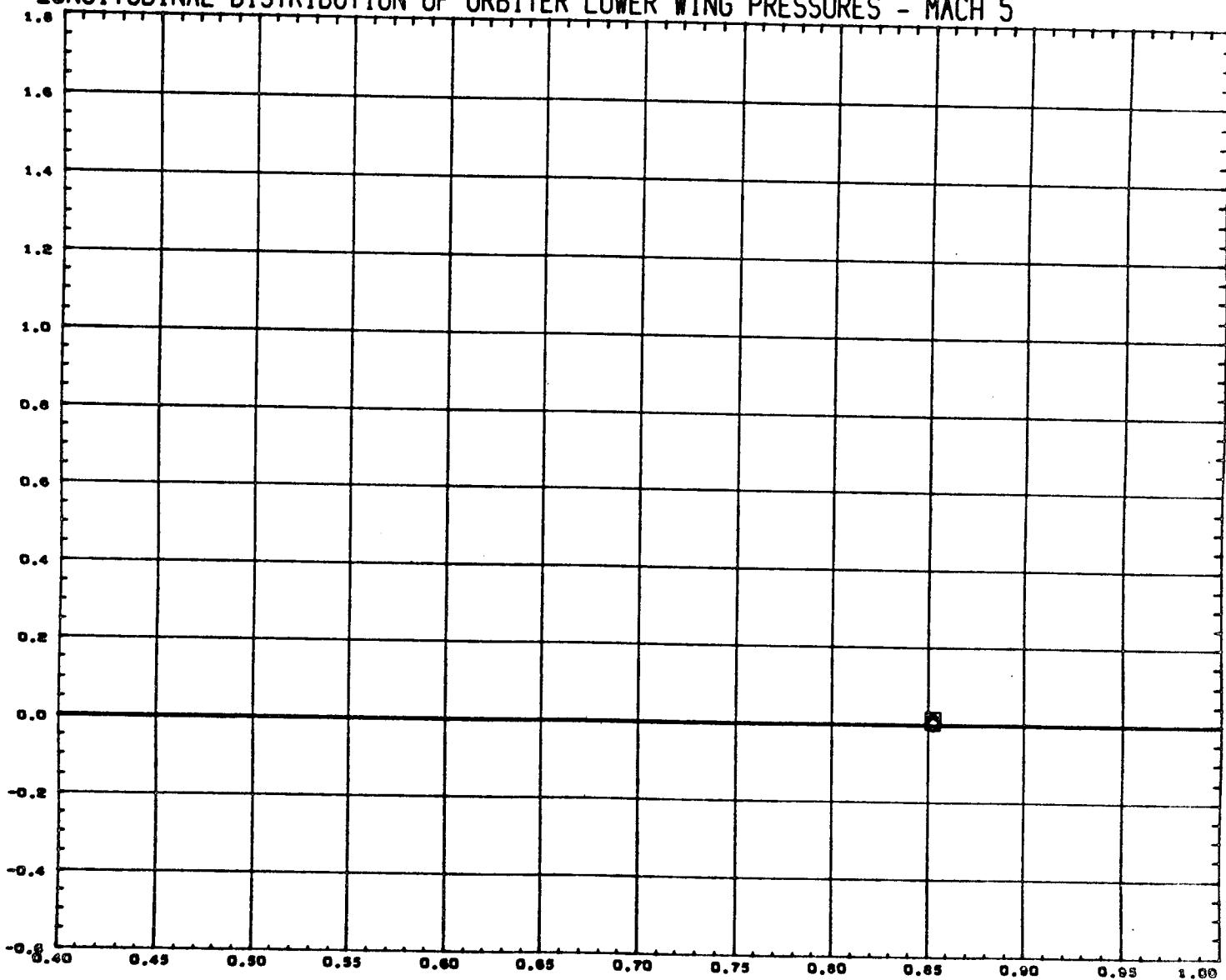
AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL	DELTA X	Y/B	DELTA Z
△	0.041	0.738	0.114
◇	0.103		
◆	0.163		
□	0.330		

LONGITUDINAL POSITION, X/L

PARAMETRIC VALUES		
ALPHAB	= 4.680	MACH 4.940
ALPHAI	0.000	ORBPOW 0.000
BSTPOW	0.000	

REFERENCE FILE

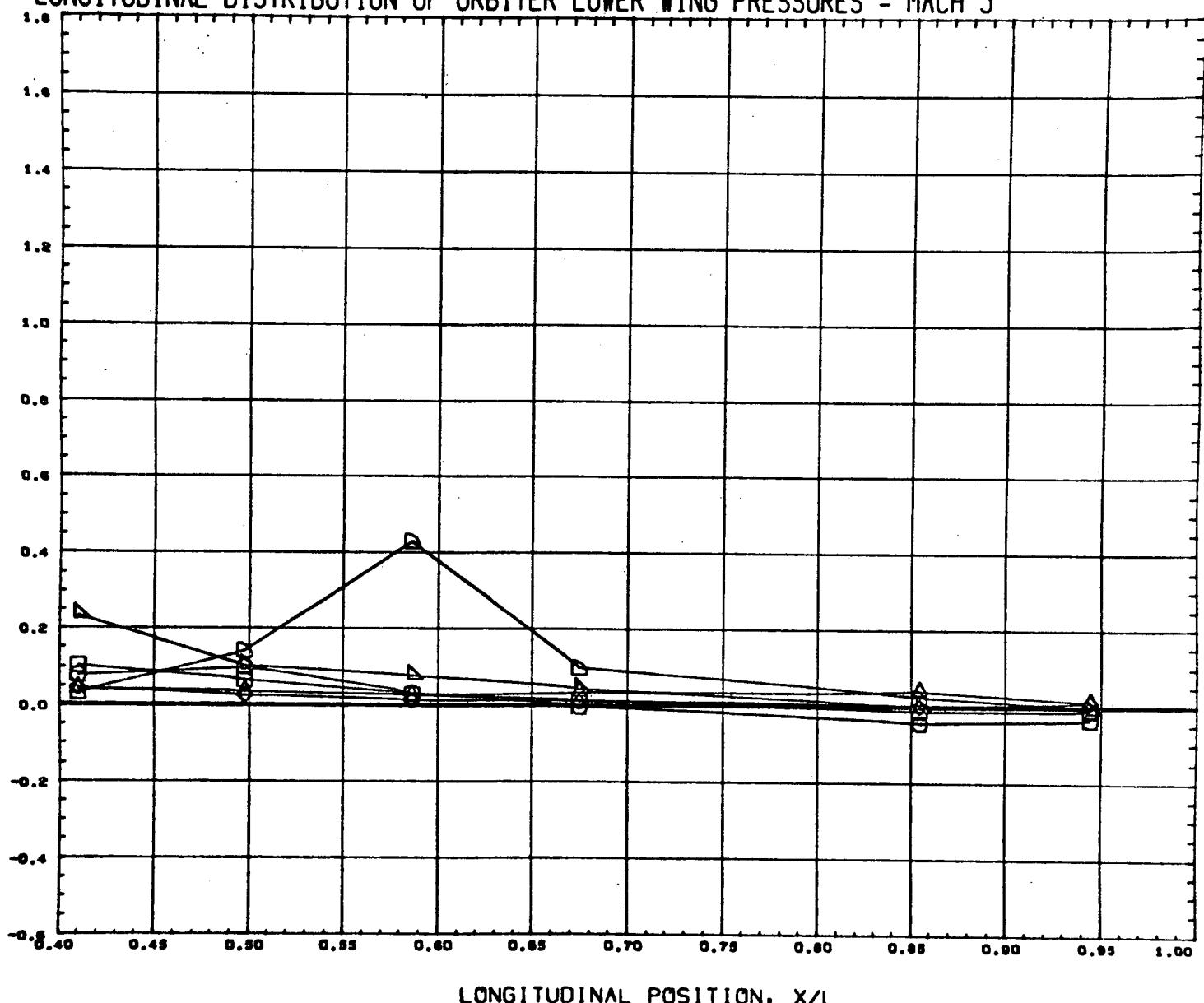
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8512•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



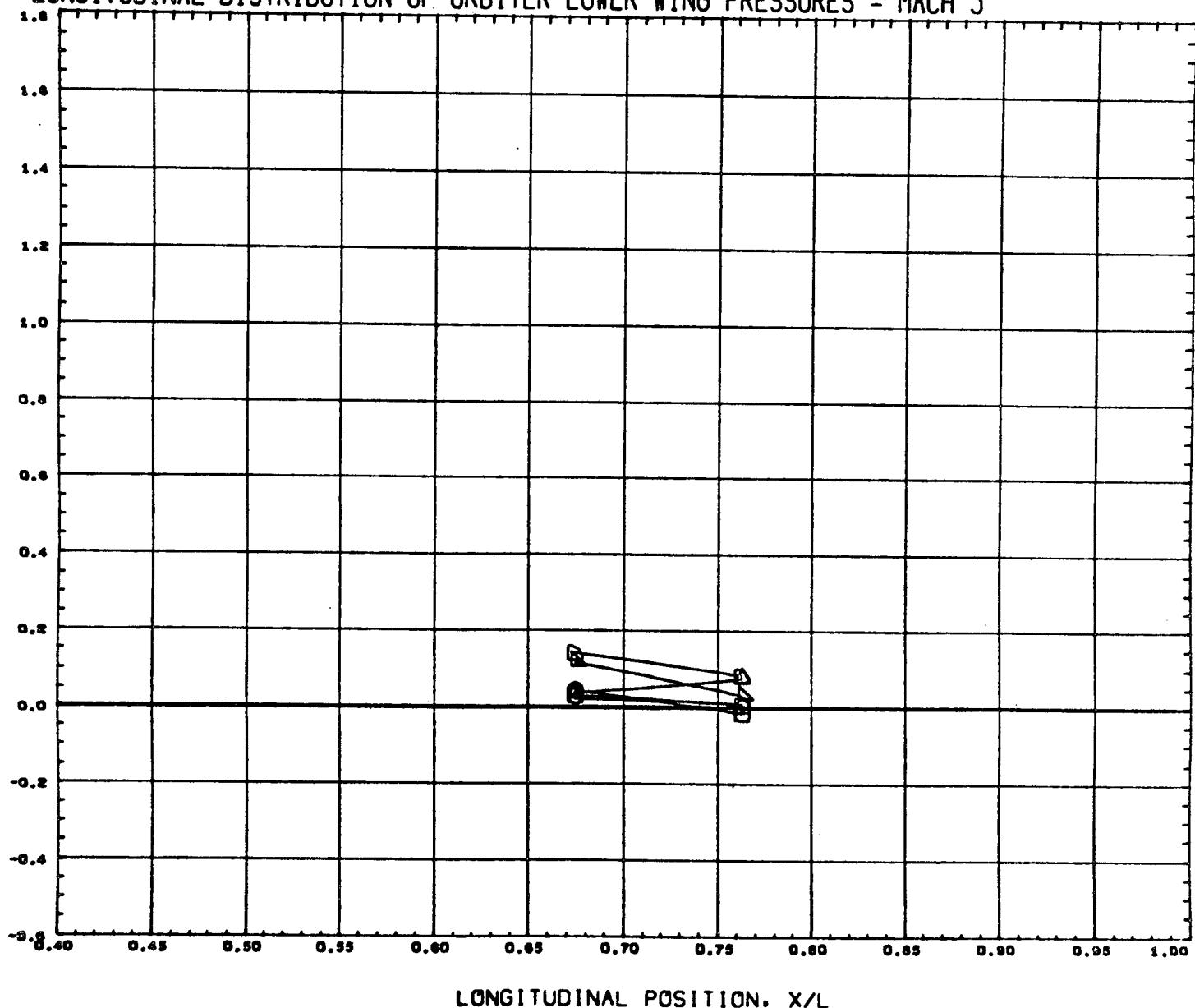
SYMBOL DELTAX Y/B DELTAZ
 □ 0.390 0.230 0.120
 △ 0.143
 - 0.020
 ○ 0.103
 ◇ 0.227
 ◁ 0.350 REFERENCE FILE

LONGITUDINAL POSITION. X/L

PARAMETRIC VALUES			
ALPHAB	- 4.888	MACH	4.940
ALPHAT	0.000	ORBPOW	0.000
BSTPOW	0.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION, X/L

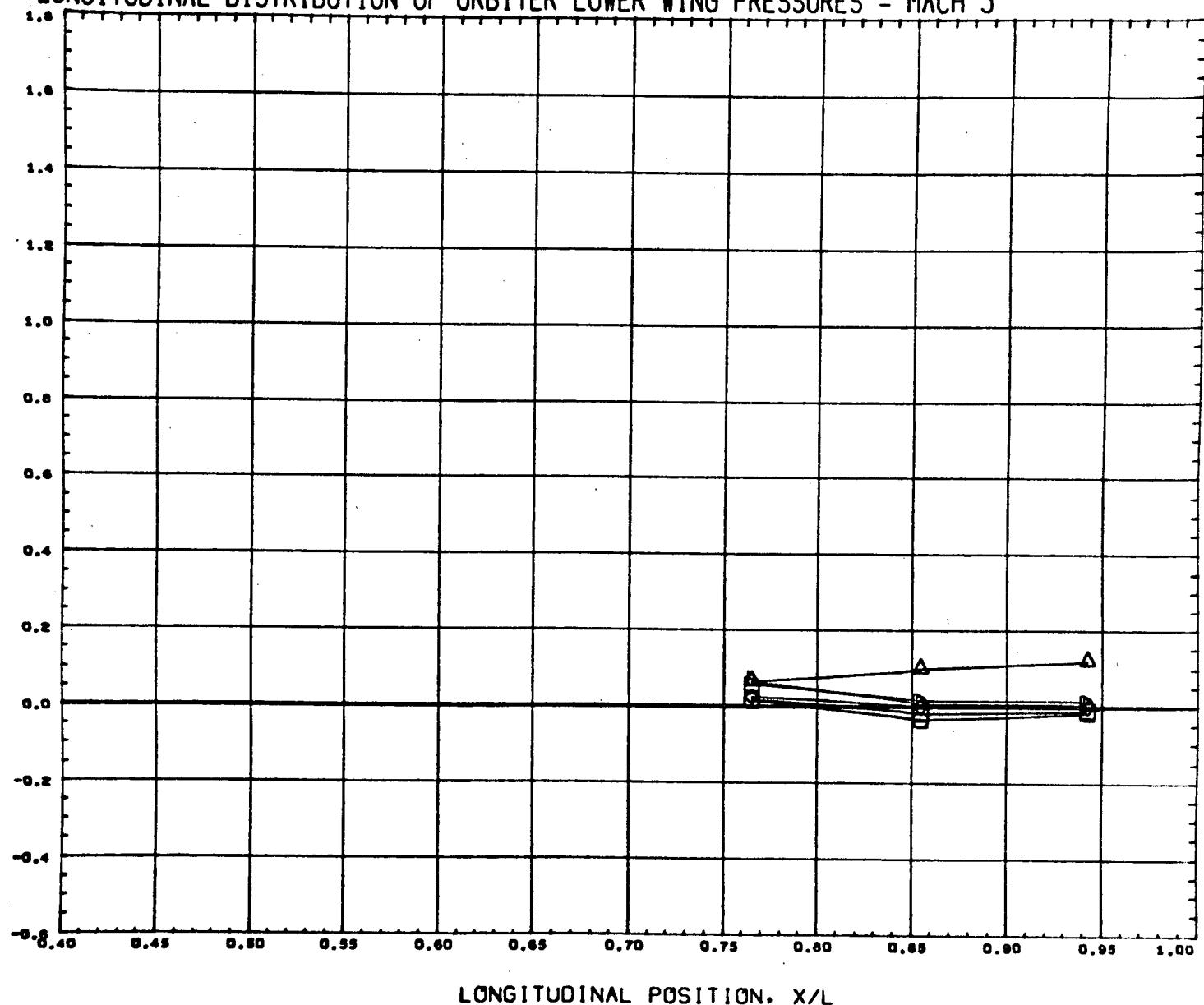
SYMBOL	DELTA X	Y/B	DELTA Z
-	0.390	0.399	0.120
-	0.143		
-	0.020		
-	0.103		
-	0.227		
-	0.350		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	- 4.888	MACH	4.940
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP

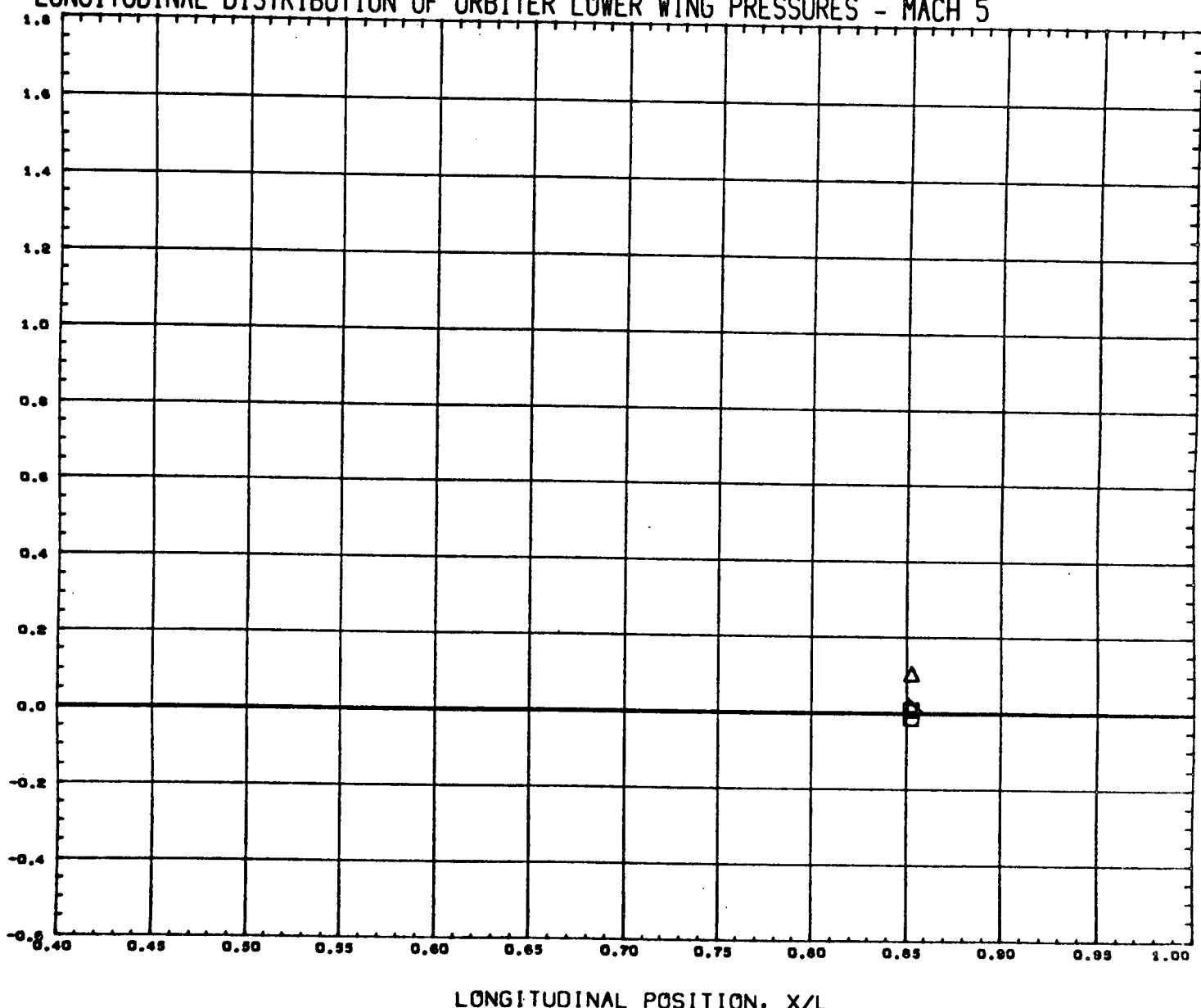


SYMBOL DELTAX Y/B DELTAZ
 O - 0.390 0.568 0.120
 D - 0.143
 D - 0.020
 D 0.103
 D 0.227
 D 0.350 REFERENCE FILE

PARAMETRIC VALUES
 ALPHAB = 4.086 MACH 4.940
 ALPHA1 = 0.000 ORBPOW 0.000
 SSTPOW = 0.000

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL DELTAX Y/B DELTAZ
 - 0.390 0.738 0.120
 - 0.143
 - 0.020
 0.103
 0.227
 0.350 REFERENCE FILE

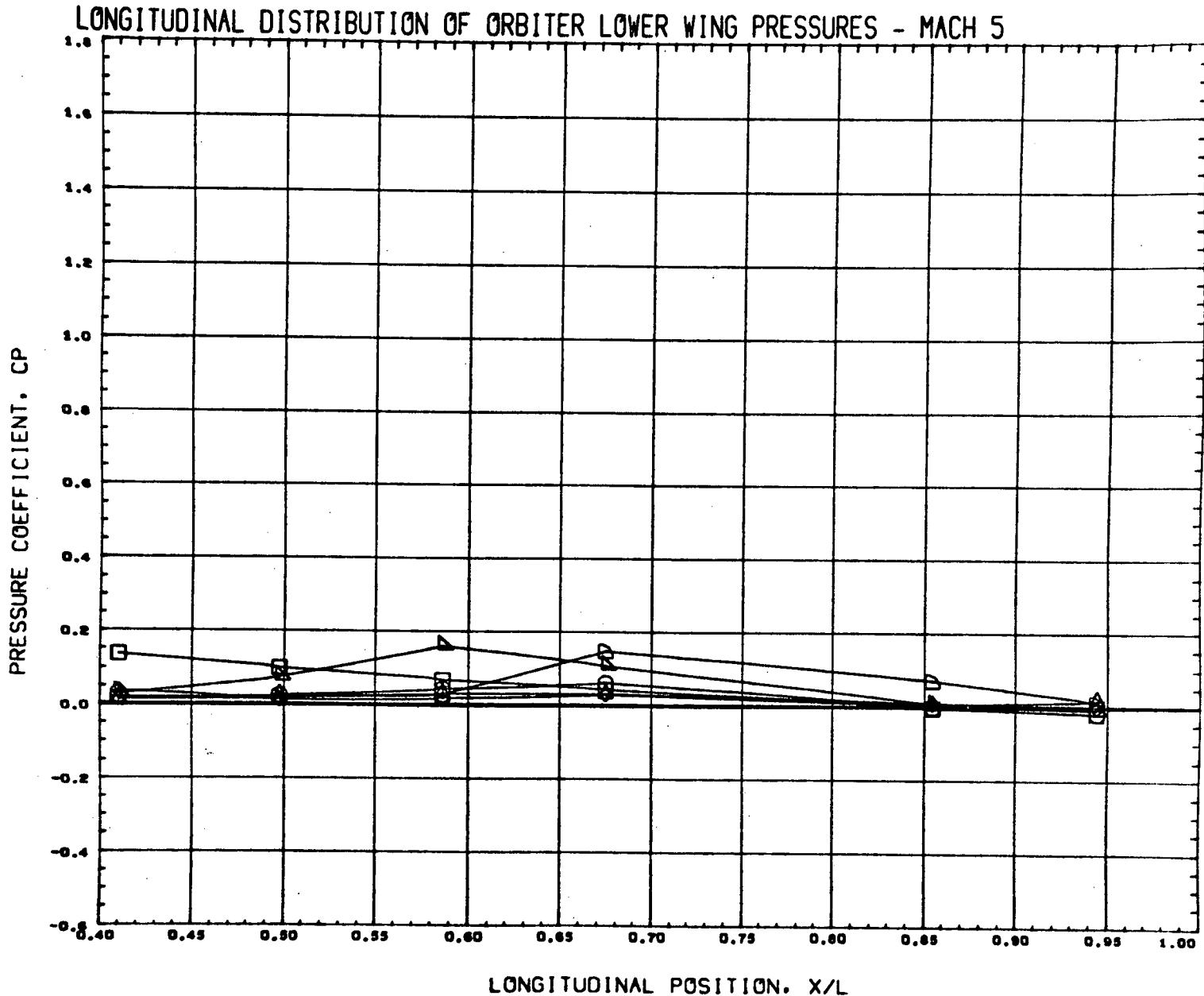
AEDC VA1163 MDAC ORBITER (LOWER WING)

LONGITUDINAL POSITION, X/L

PARAMETRIC VALUES		
ALPHAB	- 4.888	MACH 4.940
ALPHAT	0.000	ORBPOW 0.000
BSTPOW	0.000	

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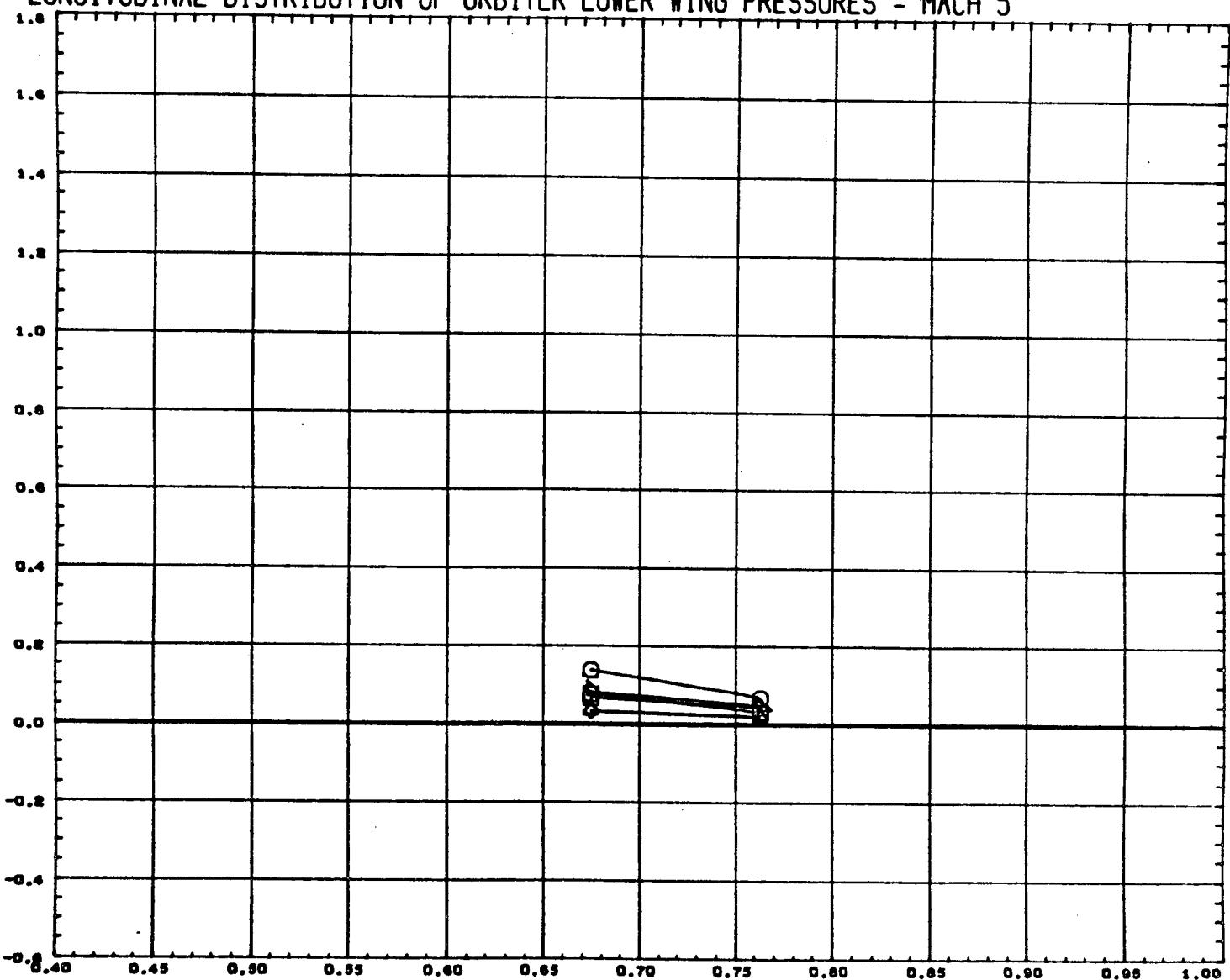
AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



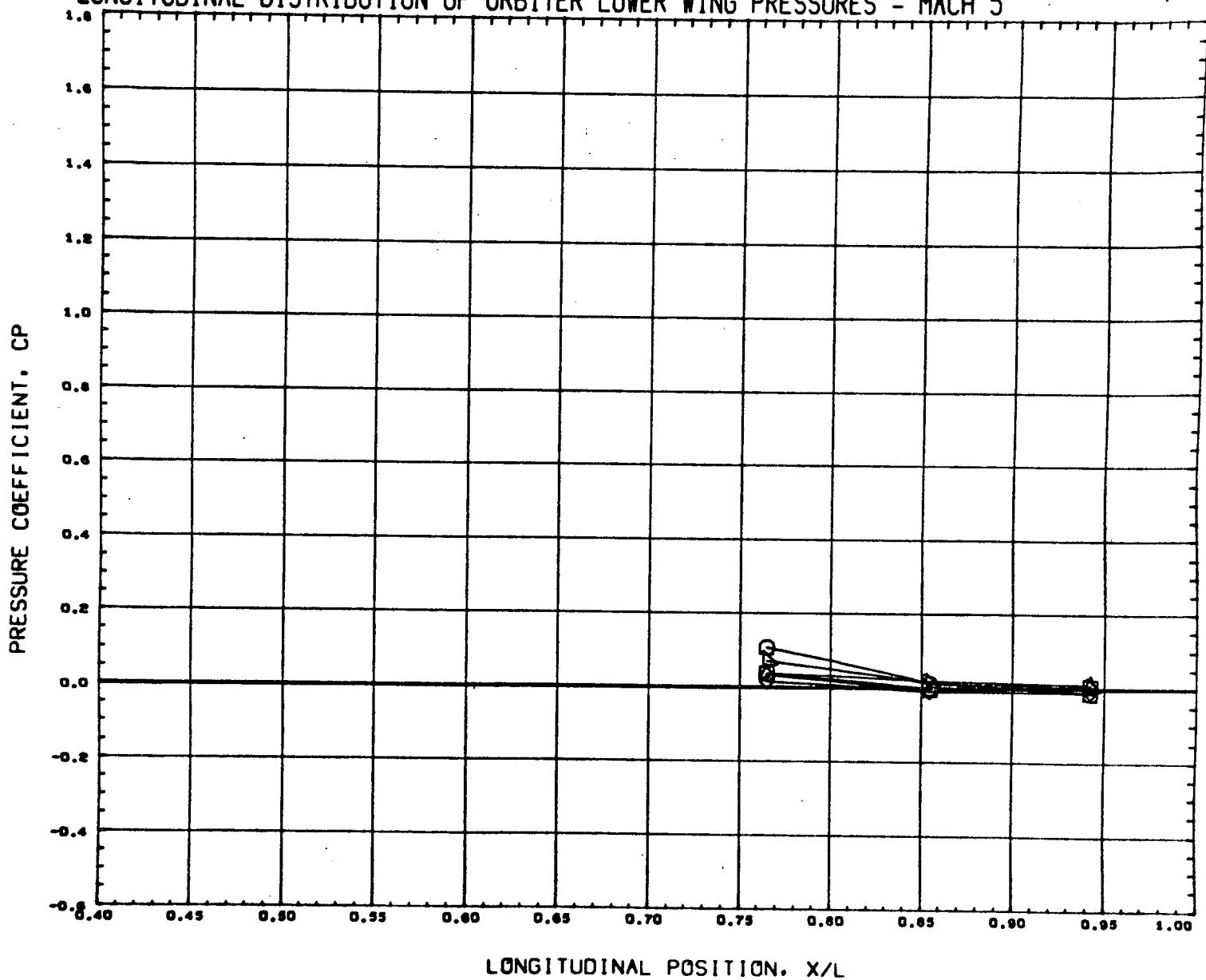
LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
-	0.390	0.399	0.151
-	0.143		
-	0.020		
○	0.103		
△	0.227		
◊	0.350		

REFERENCE FILE

PARAMETRIC VALUES		
ALPHAB	- 4.666	MACH 4.940
ALPHAI	0.000	ORBPOW 0.000
BSTPOW	0.000	

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



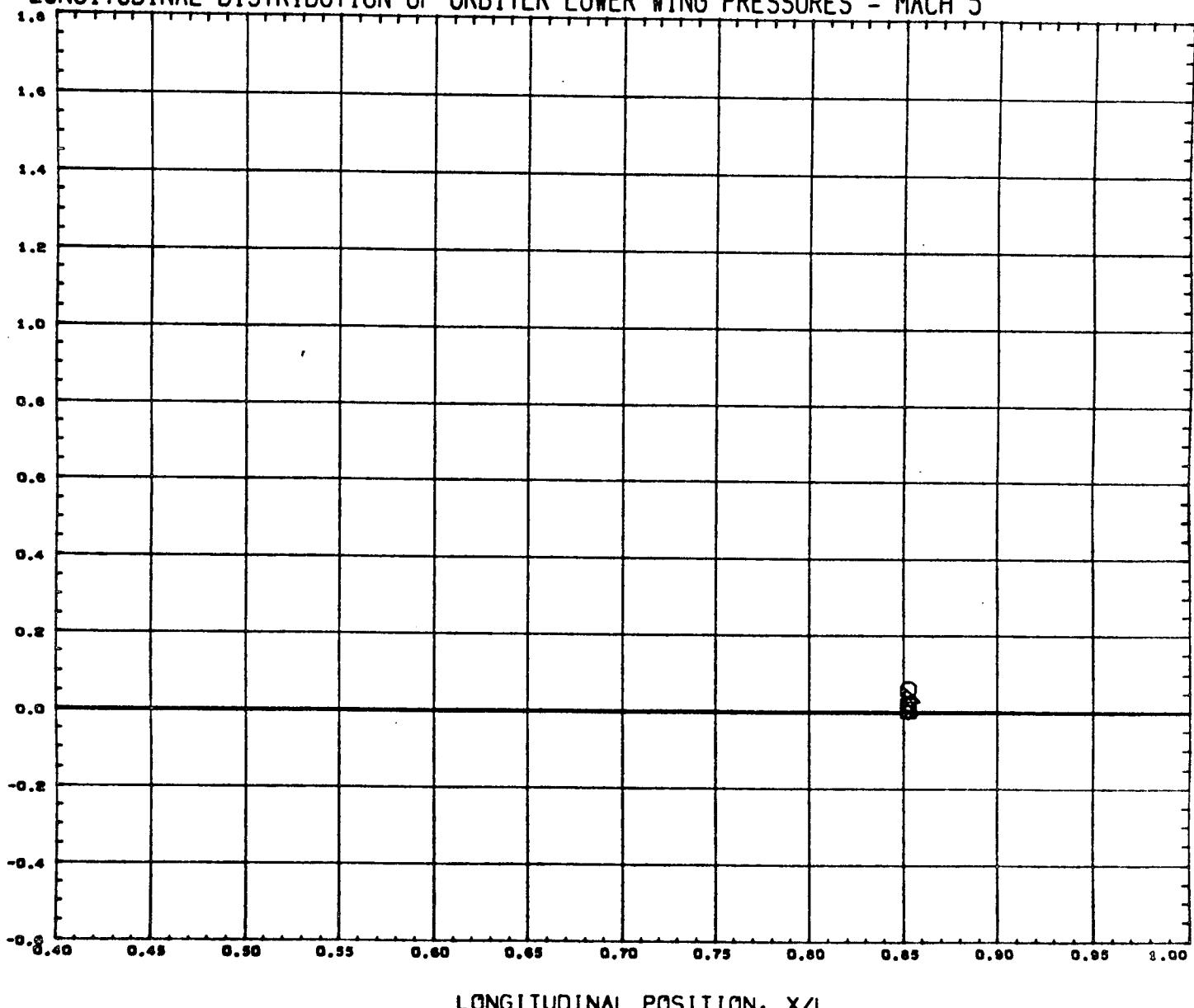
SYMBOL	DELTA X	Y/B	DELTA Z
-	0.390	0.568	0.151
-	0.143		
-	0.020		
-	0.103		
-	0.227		
-	0.390		

REFERENCE FILE

PARAMETRIC VALUES		
ALPHAB	- 4.888	MACH 4.940
ALPHAI	0.000	ORBPW 0.000
BSTPOM	0.000	

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION, X/L

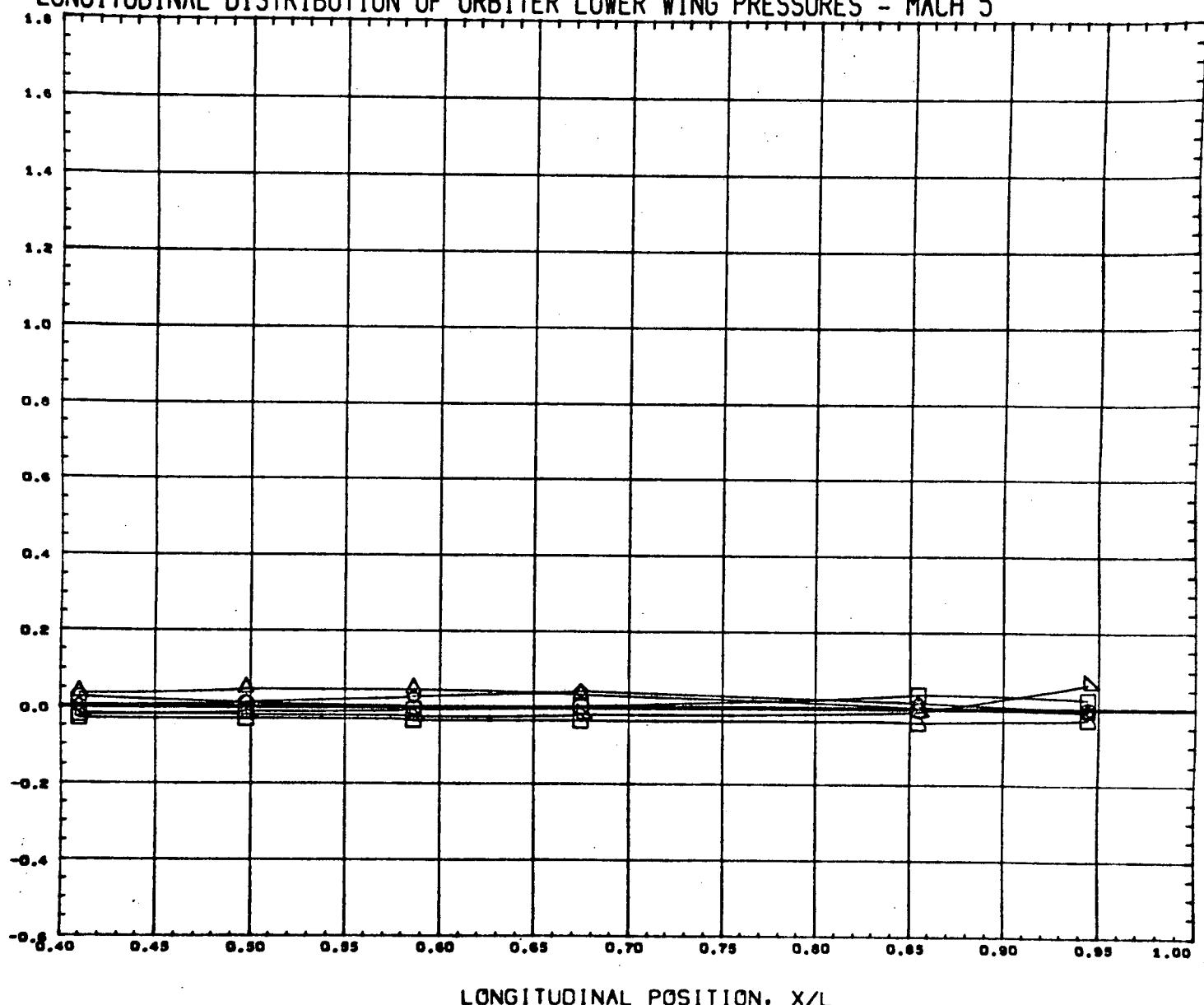
SYMBOL	DELTA X	T/S	DELTA Z
D	- 0.390	0.736	0.151
D	- 0.143		
D	- 0.020		
D	0.103		
D	0.227		
D	0.390		

REFERENCE FILE

PARAMETRIC VALUES		
ALPHAD	= 4.000	MACH 4.940
ALPHAI	0.000	ORBPOW 0.000
BSTPOW	0.000	

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP

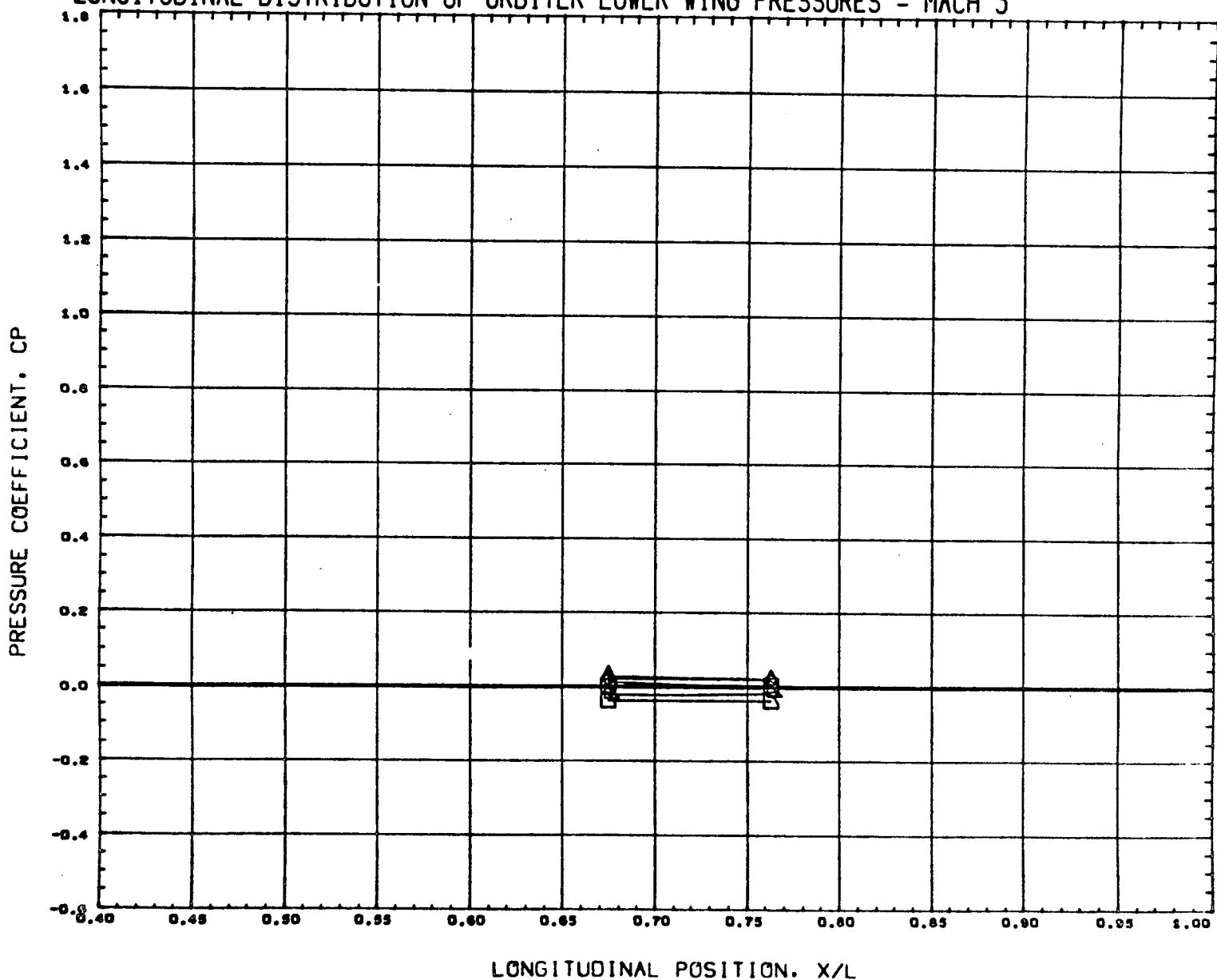


LONGITUDINAL POSITION, X/L

SYMBOL	DELTAX	T/B	DELTAZ
-	0.390	0.230	0.226
-	0.143		
-	0.020		
	0.103		
	0.227		
	0.350		
	REFERENCE FILE		

PARAMETRIC VALUES		
ALPHAB	= 4.000	MACH 4.940
ALPHAI	0.000	ORBPOW 0.000
BSTPOW	0.000	

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



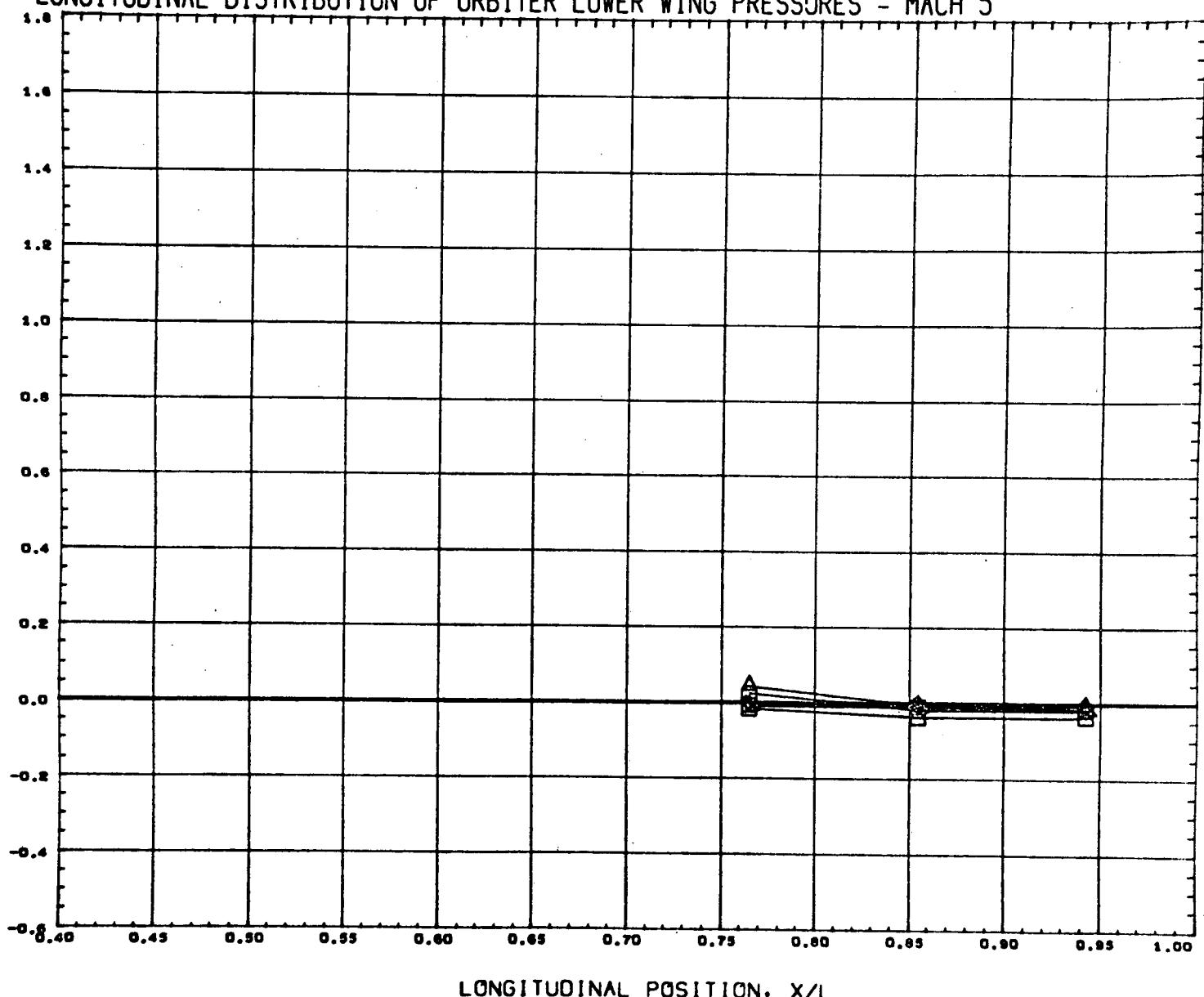
SYMBOL	DELTA X	T/B	DELTA Z
-	0.390	0.399	0.226
-	0.143		
-	0.020		
-	0.103		
-	0.227		
-	0.390		

REFERENCE FILE

PARAMETRIC VALUES		
ALPHAB	- 4.888	MACH 4.940
ALPHAI	0.000	ORBPOW 0.000
BSTPOW	0.000	

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



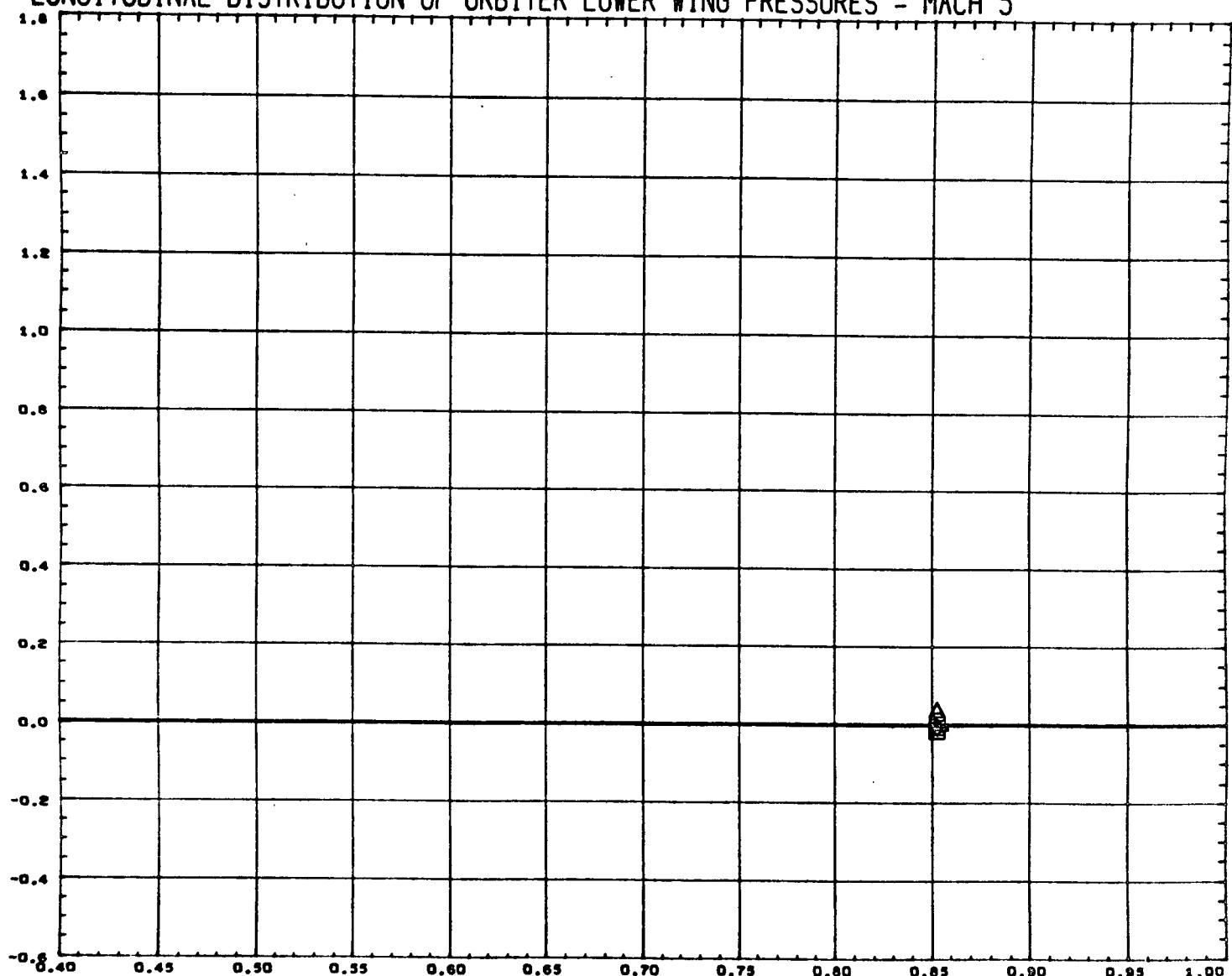
LONGITUDINAL POSITION. X/L

SYMBOL	DELTA X	Y/B	DELTA Z
-	0.390	0.568	0.228
-	0.143		
-	0.020		
0.103			
0.227			
0.350			
REFERENCE FILE			

PARAMETRIC VALUES		
ALPHAB	- 4.668	MACH 4.940
ALPHAT	0.000	ORBPOW 0.000
BSTPOW	0.000	

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



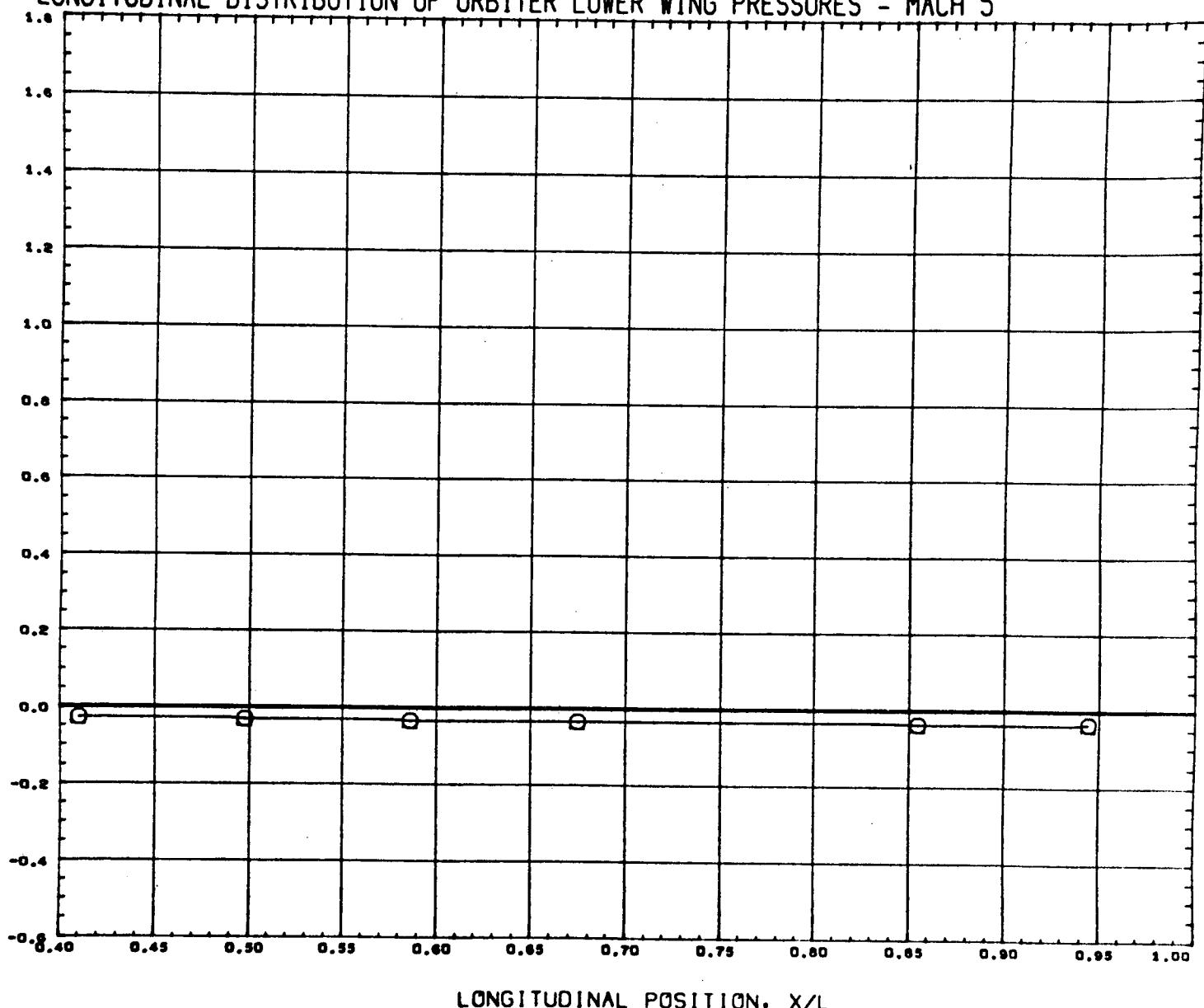
LONGITUDINAL POSITION. X/L

SYMBOL	DELTA X	Y/Z	DELTA Z
-	0.390	0.738	0.228
-	0.143		
-	0.020		
◊	0.103		
□	0.227		
□	0.390		
	REFERENCE FILE		

PARAMETRIC VALUES		
ALPHAB	- 4.668	MACH 4.940
ALPHAI	0.000	ORBPOW 0.000
BSTPOW	0.000	

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



LONGITUDINAL POSITION. X/L

SYMBOL DELTAX Y/B DELTAZ
 ○ 0.520 0.230 0.909

PARAMETRIC VALUES			
ALPHAB	- 4.886	MACH	4.940
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

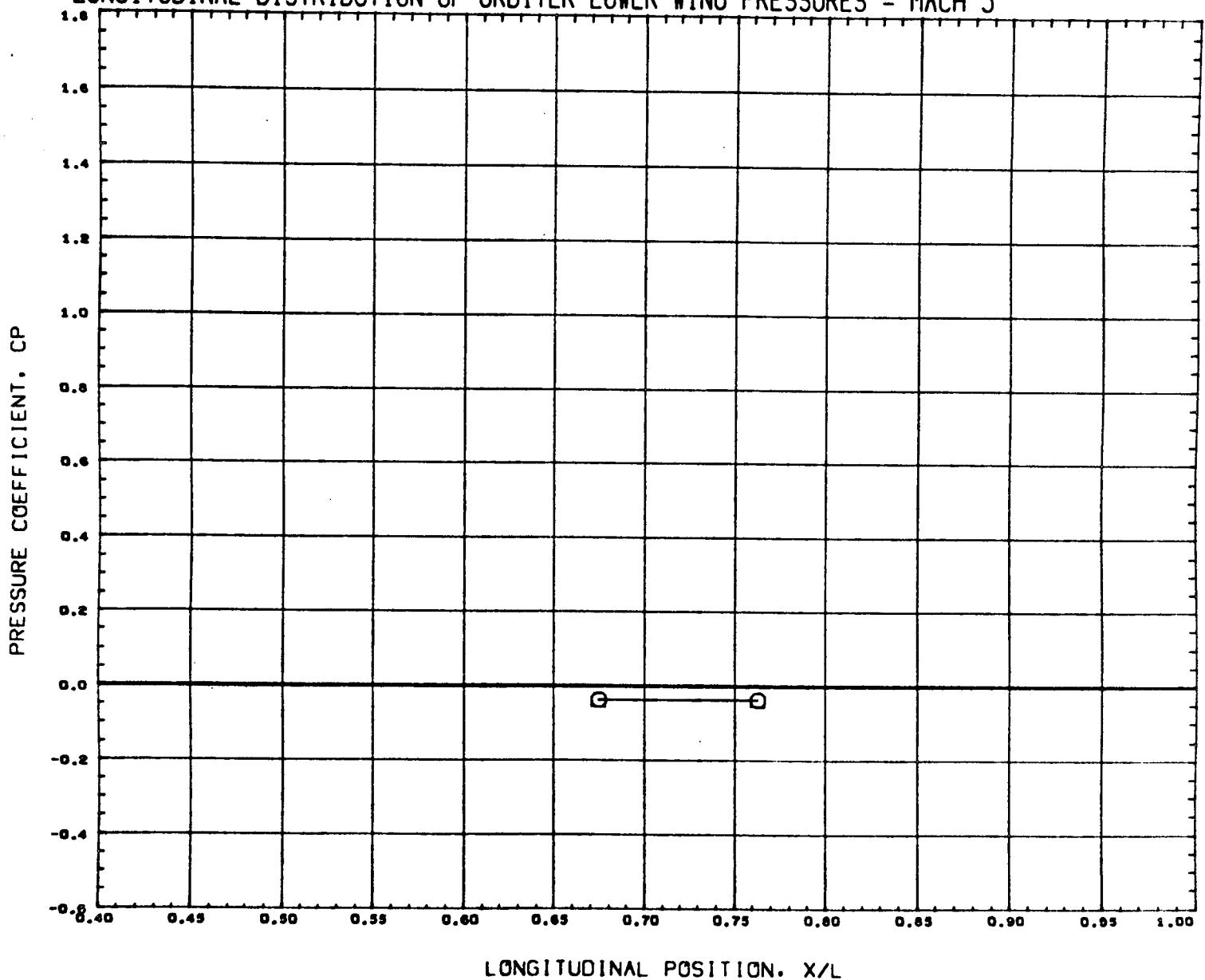
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTAX	T/B	DELTAZ
C	0.320	0.399	0.908

PARAMETRIC VALUES		
ALPHAB	- 4.888	MACH 4.940
ALPHAT	0.000	ORBPOW 0.000
BSTPOW	0.000	

REFERENCE FILE

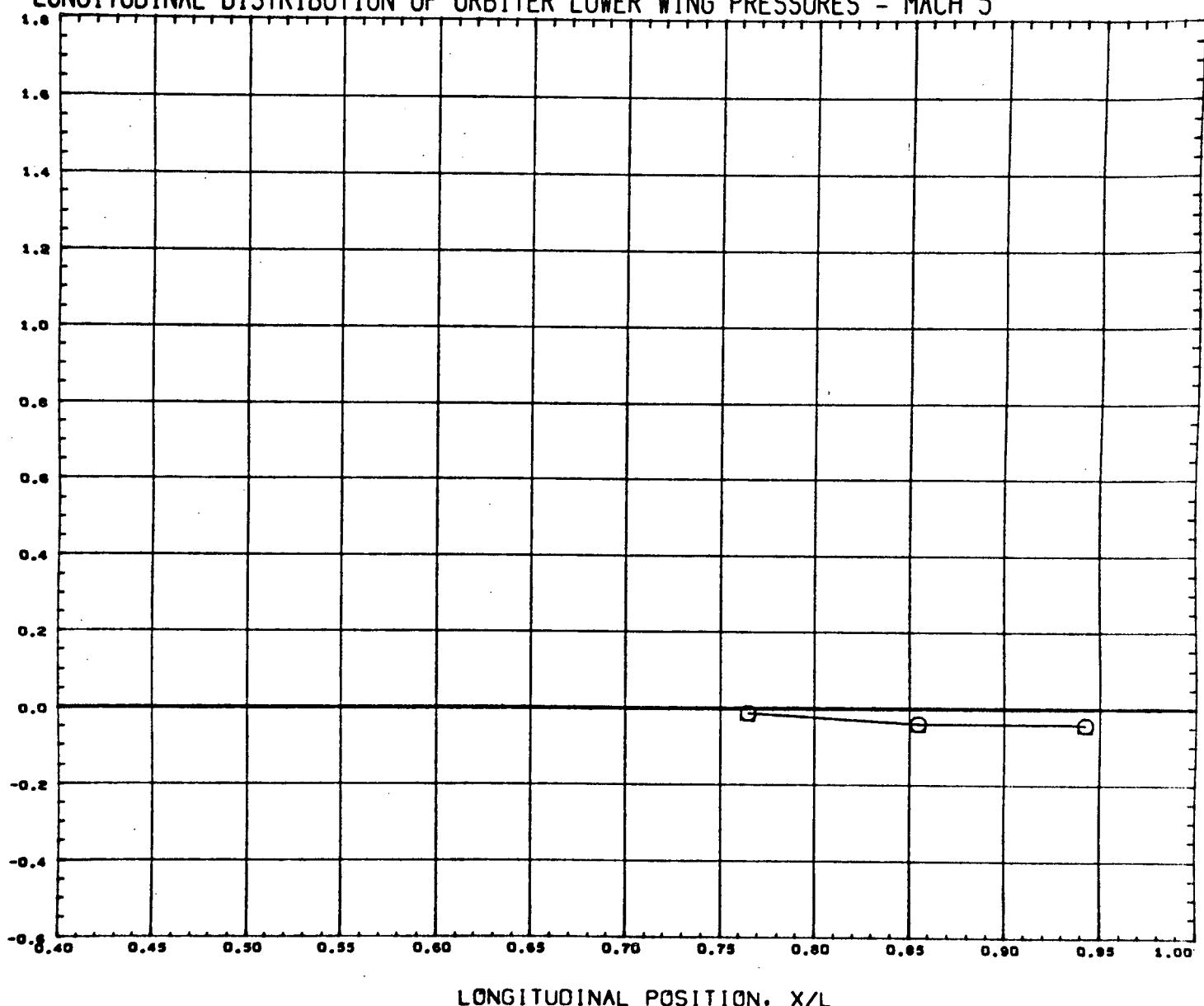
AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION, X/L

SYMBOL DELTAX Y/B DELTAZ
C 0.920 0.569 0.906

PARAMETRIC VALUES	
ALPHAB	- 4.886
ALPHAI	0.000
BSTPOW	0.000
MACH	4.940
ORBPOW	0.000

REFERENCE FILE

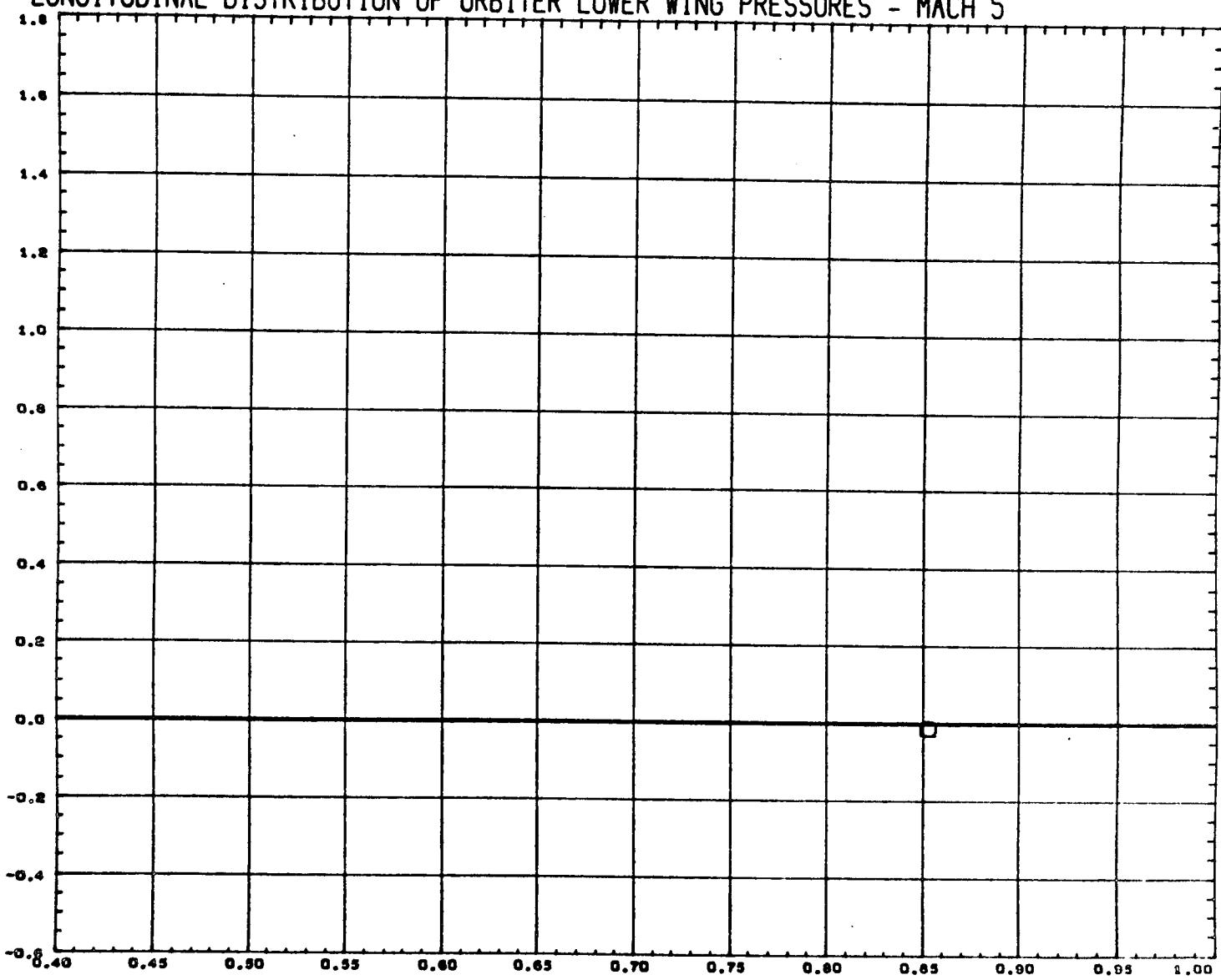
AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



LONGITUDINAL POSITION. X/L

SYMBOL DELTAX T/S DELTAZ
 C 0.520 0.736 0.906

ALPHAB	= 4.888	MACH	4.940
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

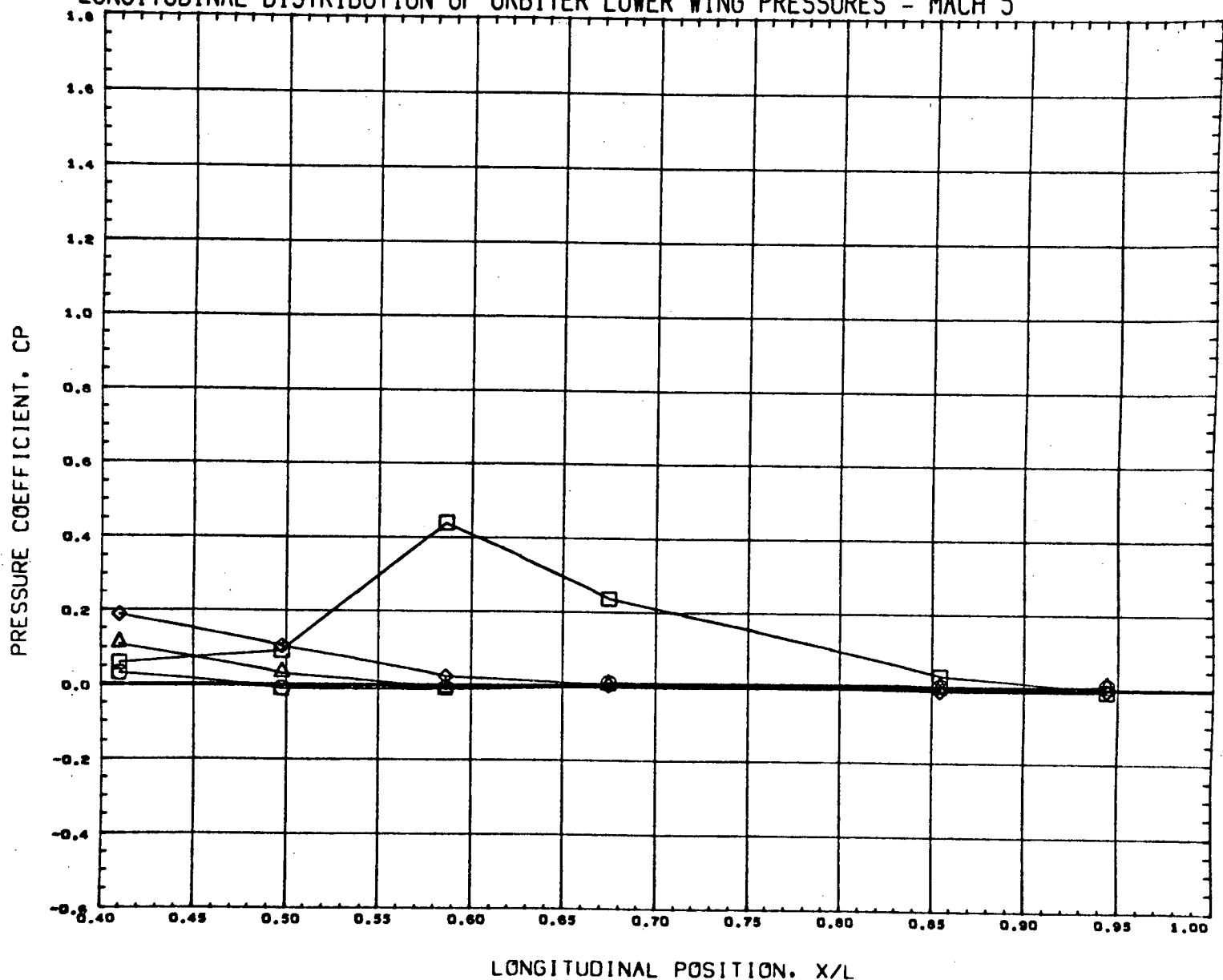
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8512•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.041	0.230	0.114
△	0.103		
◊	0.165		
□	0.350		

PARAMETRIC VALUES			
ALPHAS	0.030	MACH	4.940
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

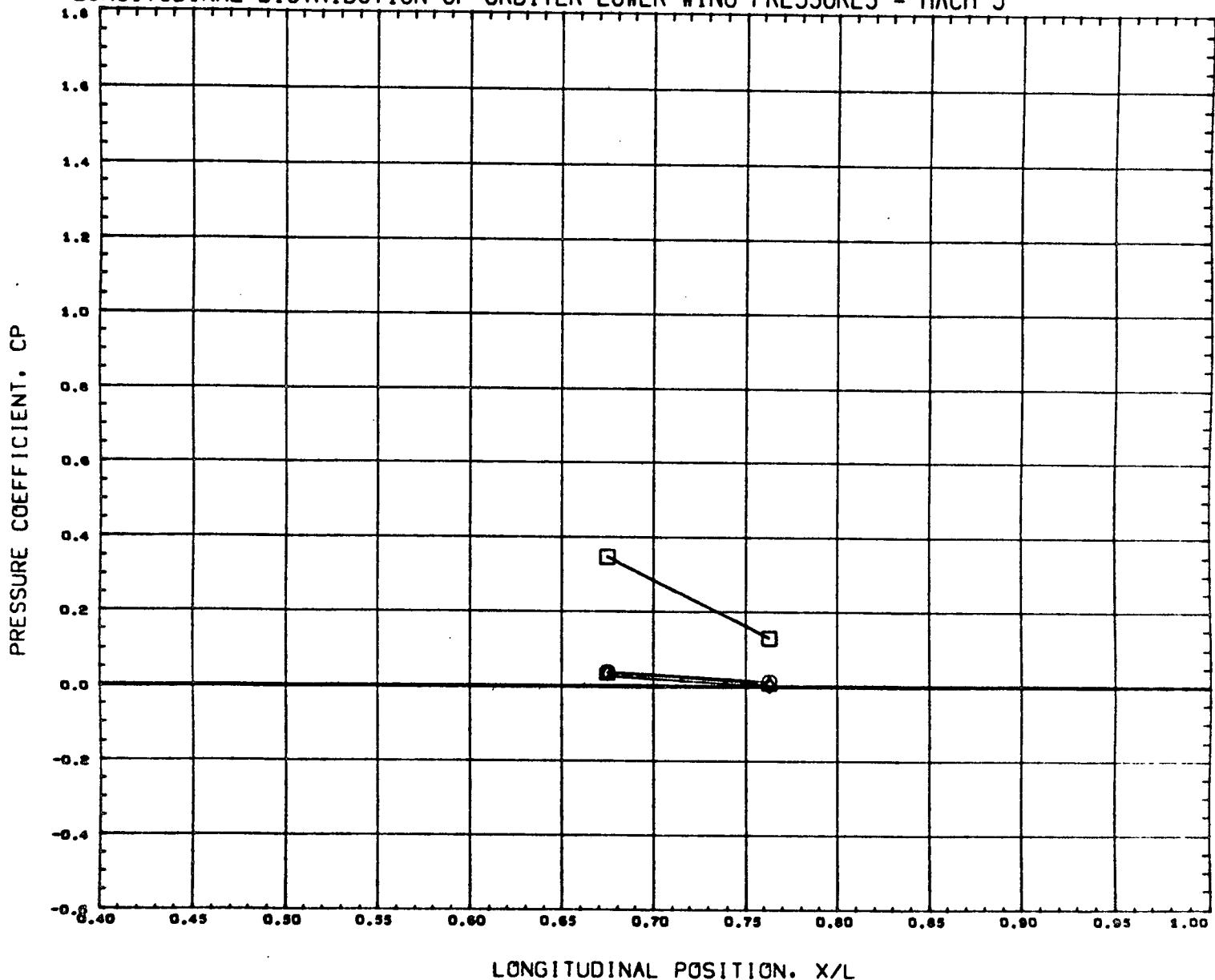
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8513•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



PARAMETRIC VALUES
 ALPHAB 0.050 MACH 4.940
 ALPHAT 0.000 ORBPOW 0.000
 BSTPOW 0.000

REFERENCE FILE

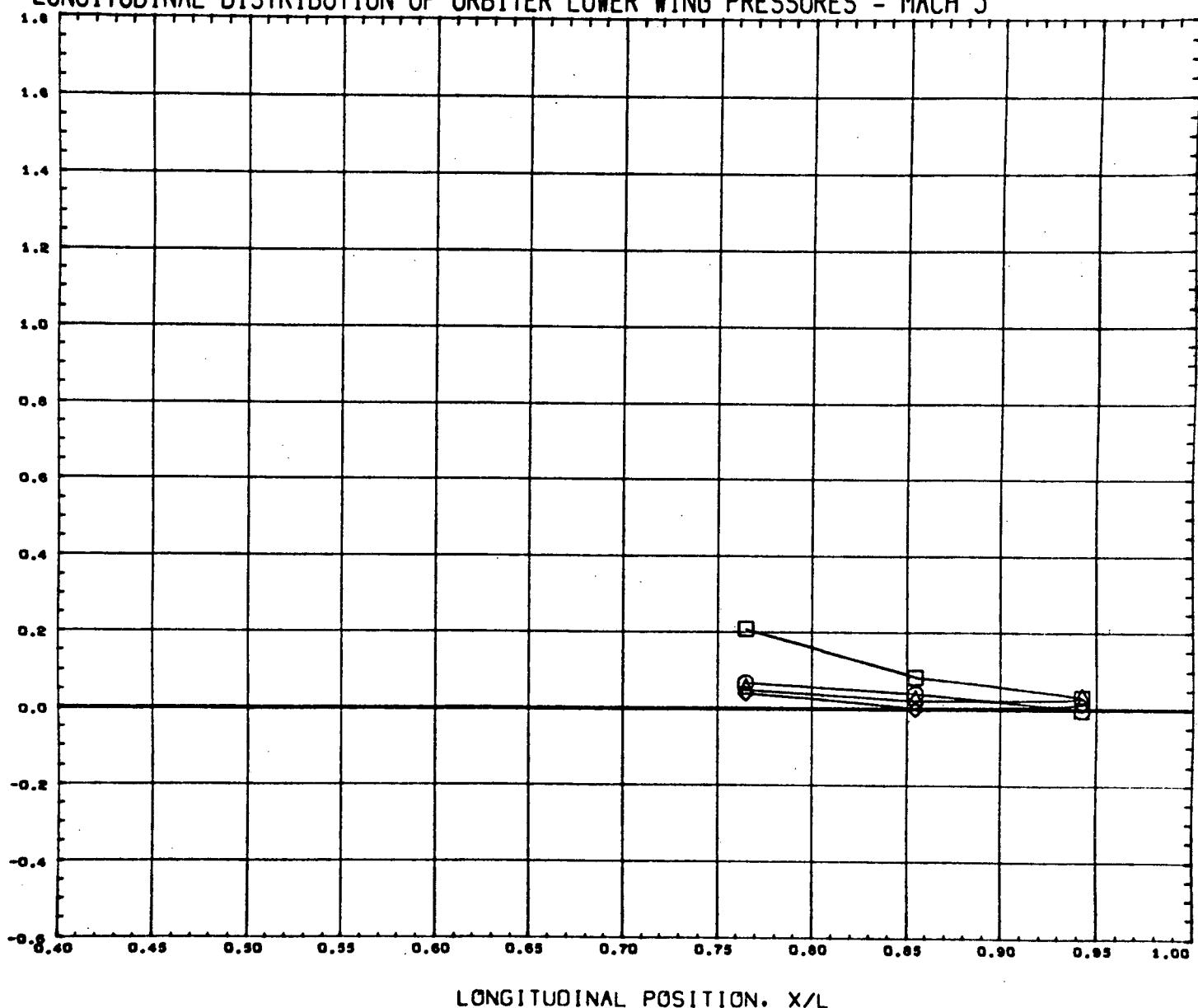
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8513•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL DELTAX T/B DELTAZ

\square	0.041	0.560	0.114
\diamond	0.103		
Δ	0.169		
\triangle	0.350		

PARAMETRIC VALUES

ALPHAB	0.050	MACH	4.940
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

REFERENCE FILE

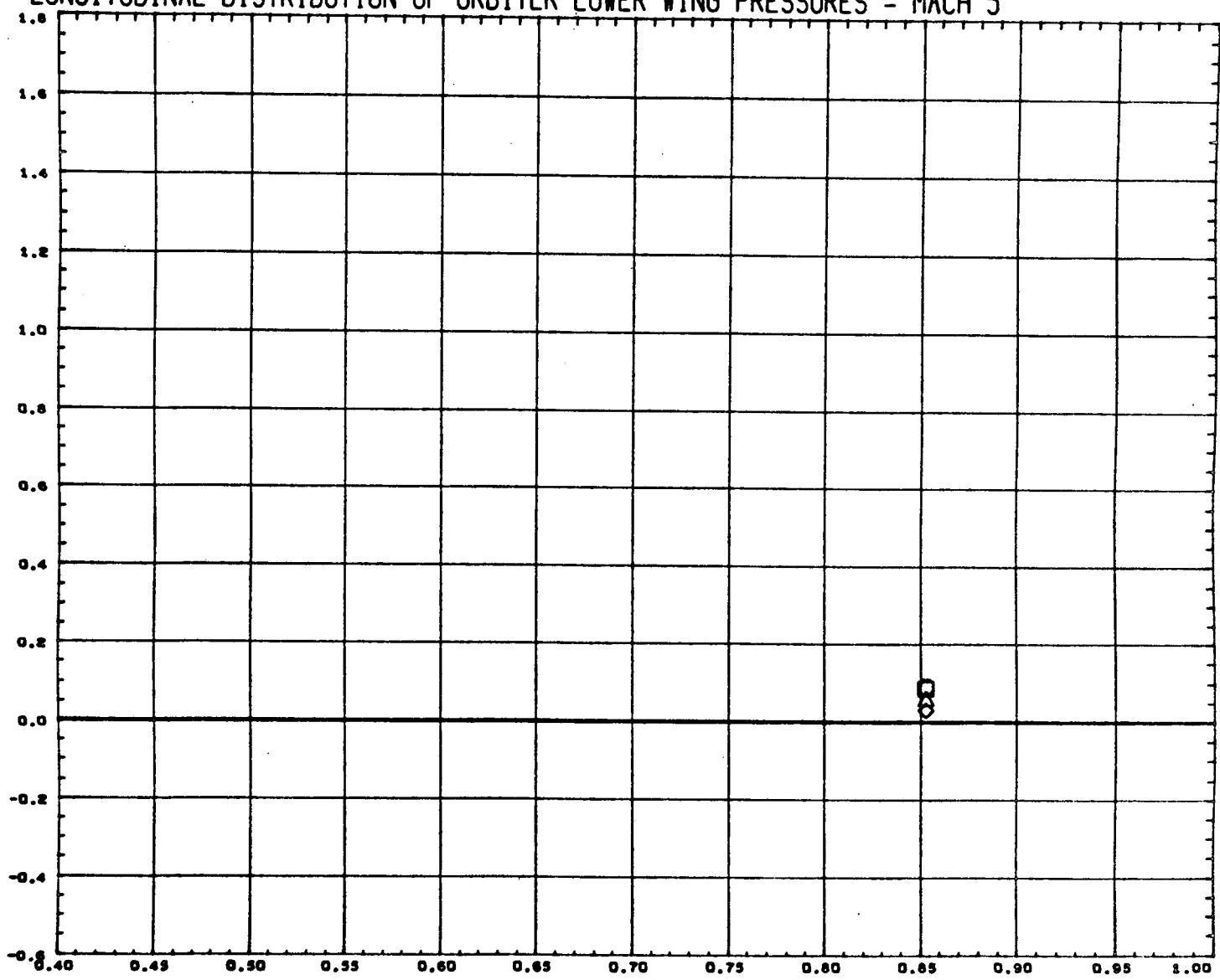
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8513•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
C	0.041	0.736	0.114
△	0.103		
◇	0.165		
□	0.350		

PARAMETRIC VALUES			
ALPHAB	0.050	MACH	4.940
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

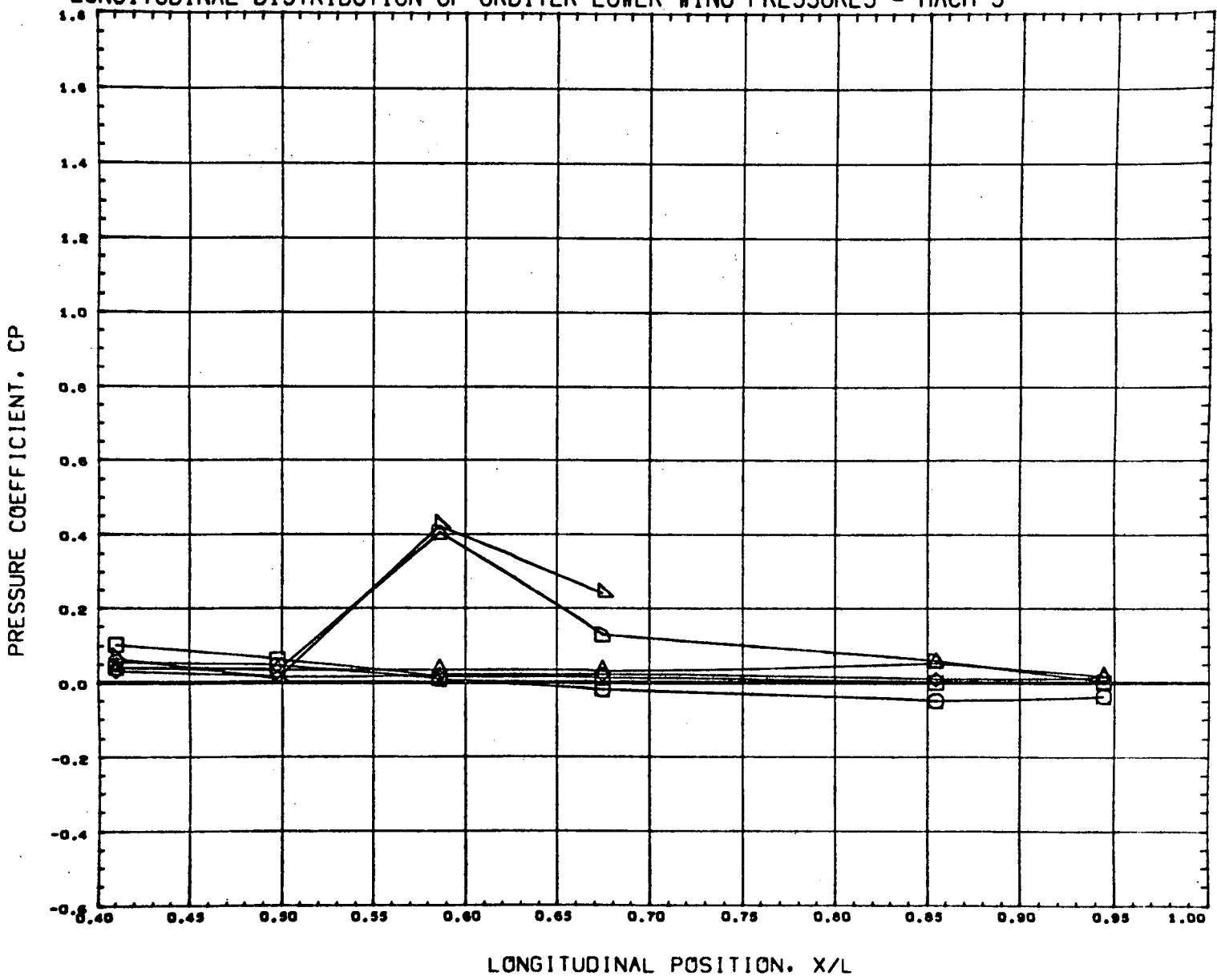
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8513•

PAGE 540

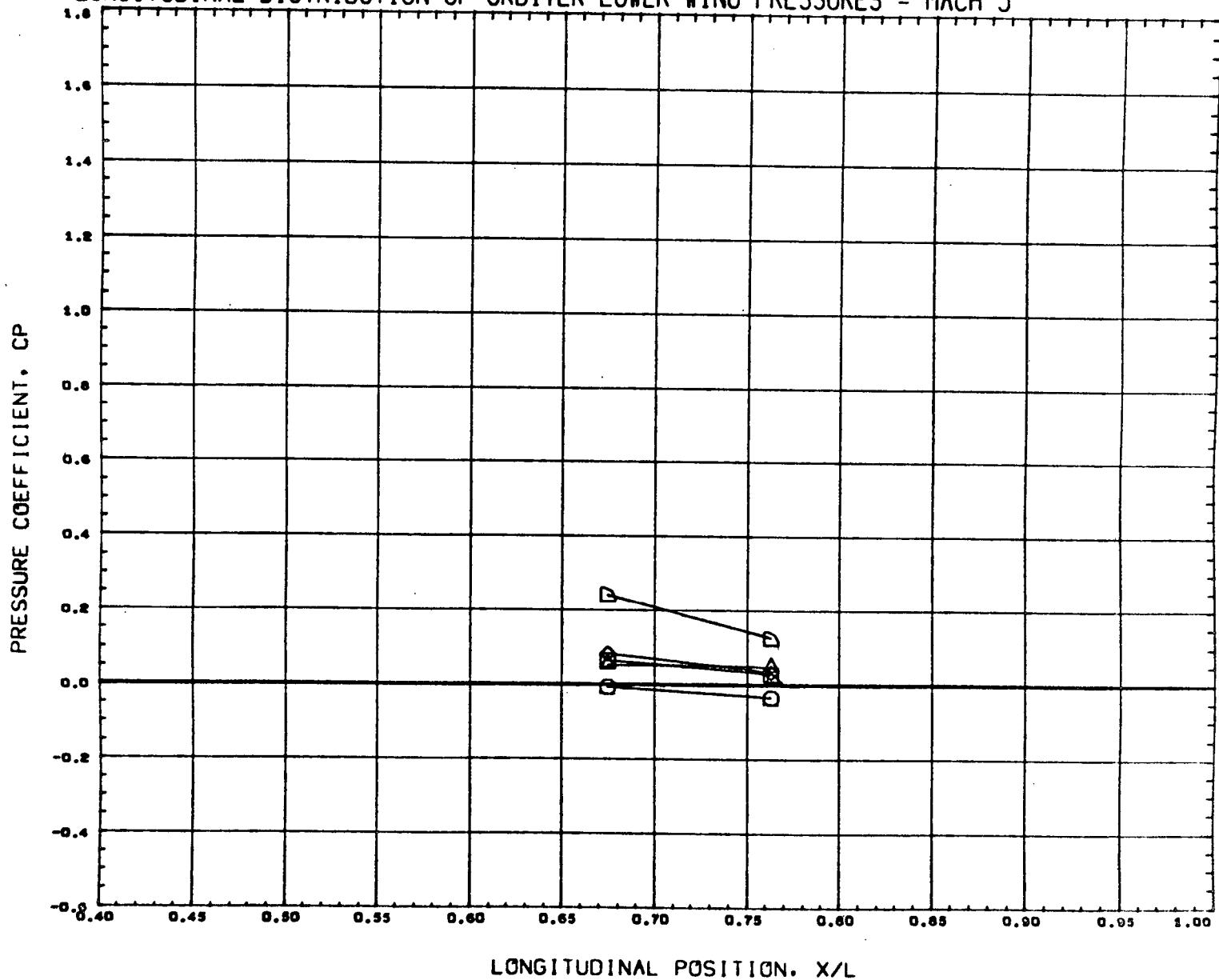
LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL DELTAX Y/Z DELTAZ
 □ 0.390 0.230 0.120
 ▲ 0.143
 ◇ 0.020
 ○ 0.103
 × 0.227
 ◻ 0.350
 REFERENCE FILE

PARAMETRIC VALUES
 ALPHAB 0.050 MACH 4.940
 ALPHAT 0.000 ORBPOW 0.000
 BSTPOW 0.000

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

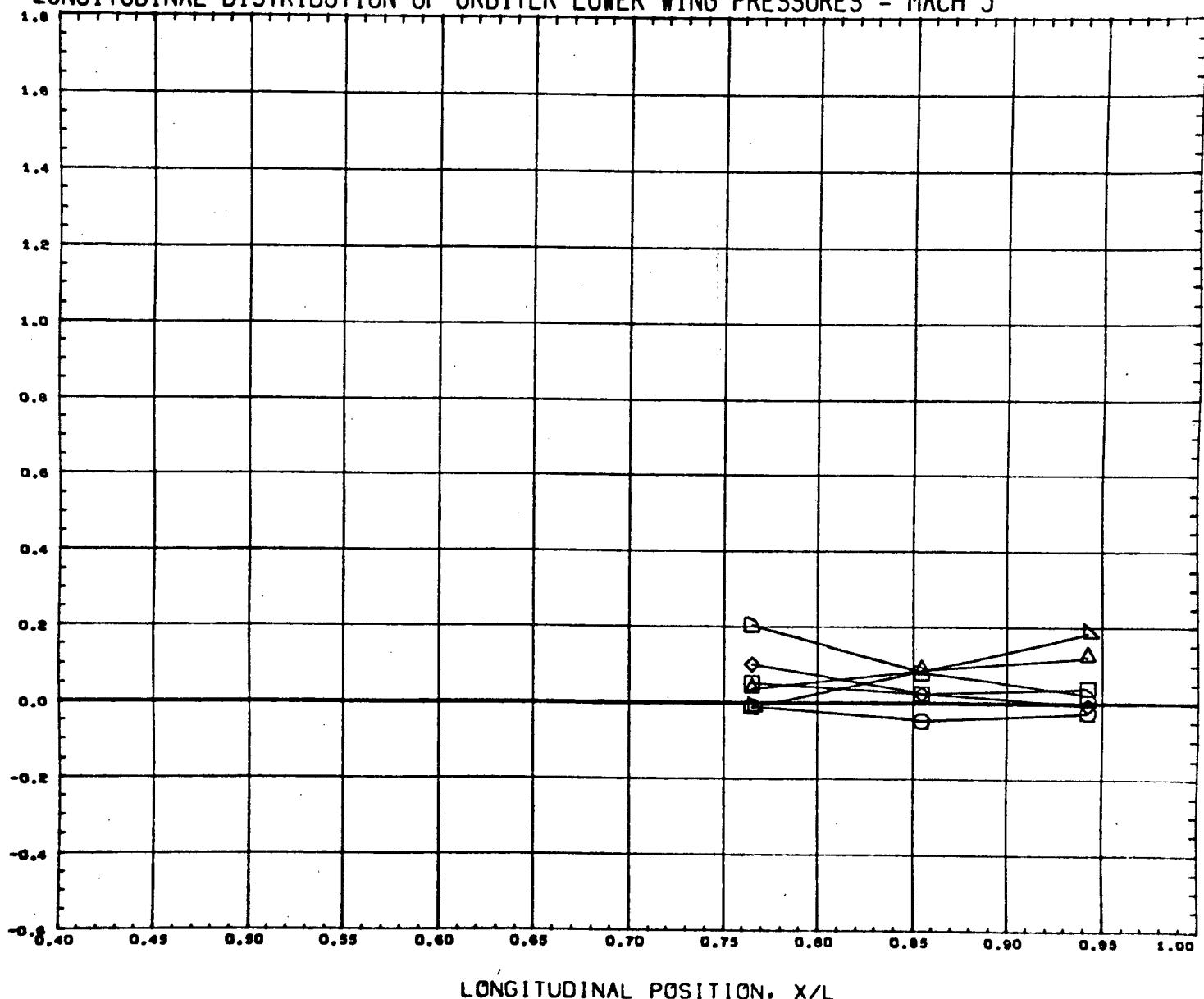


AEDC VA1163 MDAC ORBITER (LOWER WING)
 •HT8513•
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PARAMETRIC VALUES
 ALPHAB 0.050 MACH 4.940
 ALPHAI 0.000 ORBPOW 0.000
 BSTPOW 0.000

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



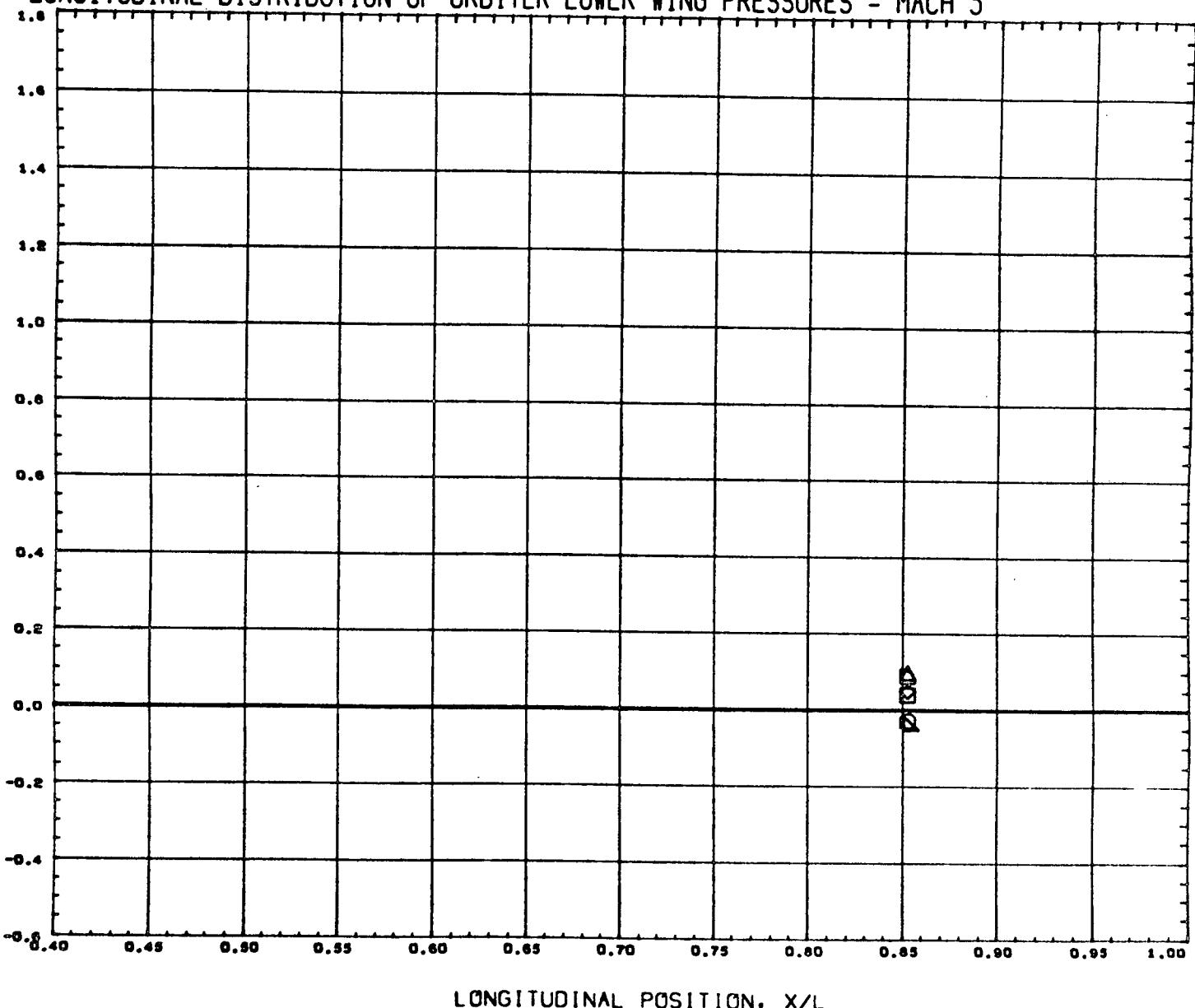
LONGITUDINAL POSITION, X/L

SYMBOL DELTAX Y/B DELTAZ
 - 0.390 0.568 0.120
 - 0.143
 - 0.020
 0.103
 0.227
 0.350 REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	0.030	MACH	4.940
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION, X/L

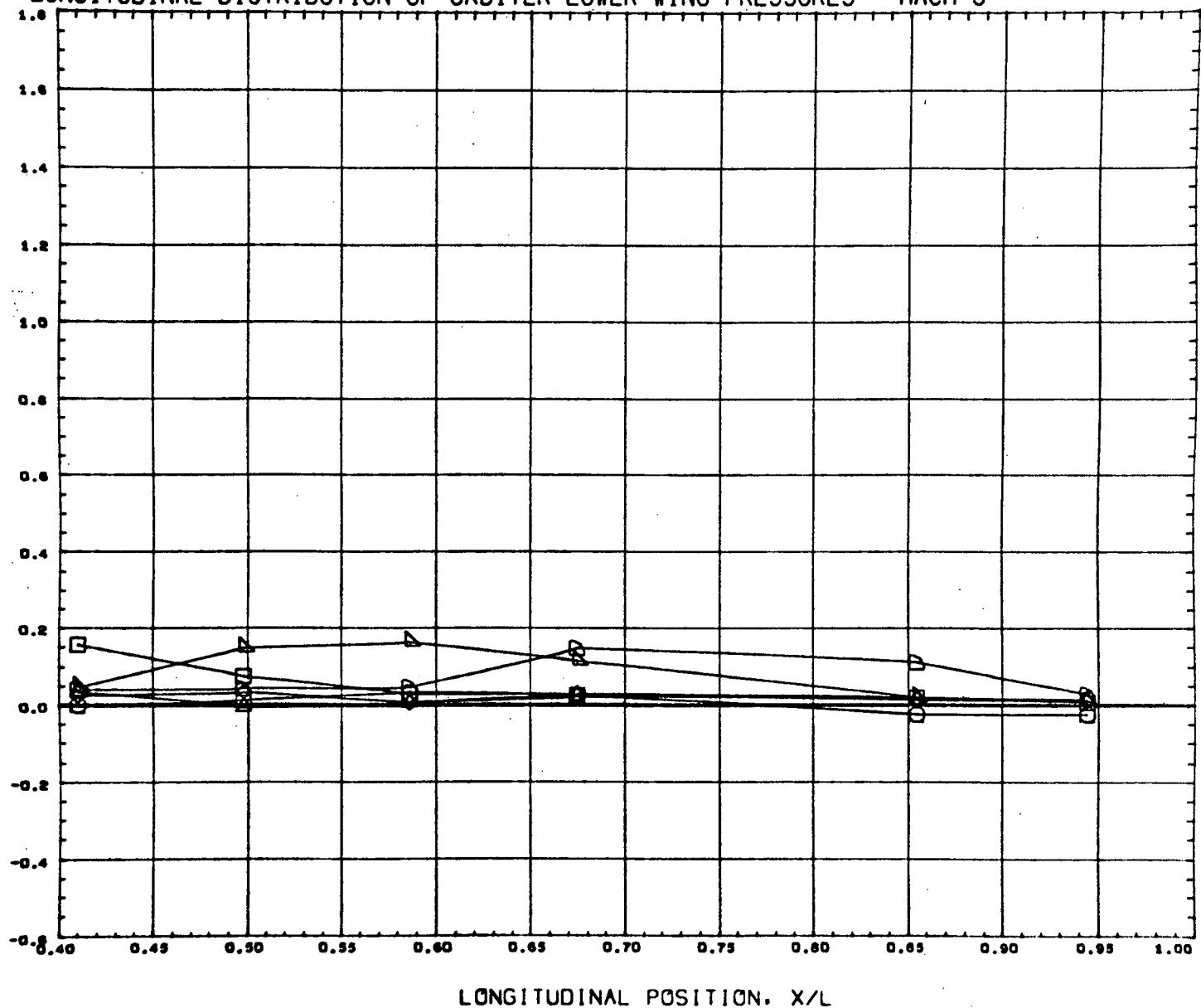
SYMBOL	DELTA X	Y/B	DELTA Z
-	0.390	0.738	0.120
-	0.143		
-	0.020		
-	0.103		
-	0.227		
-	0.350		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	0.050	MACH	4.940
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

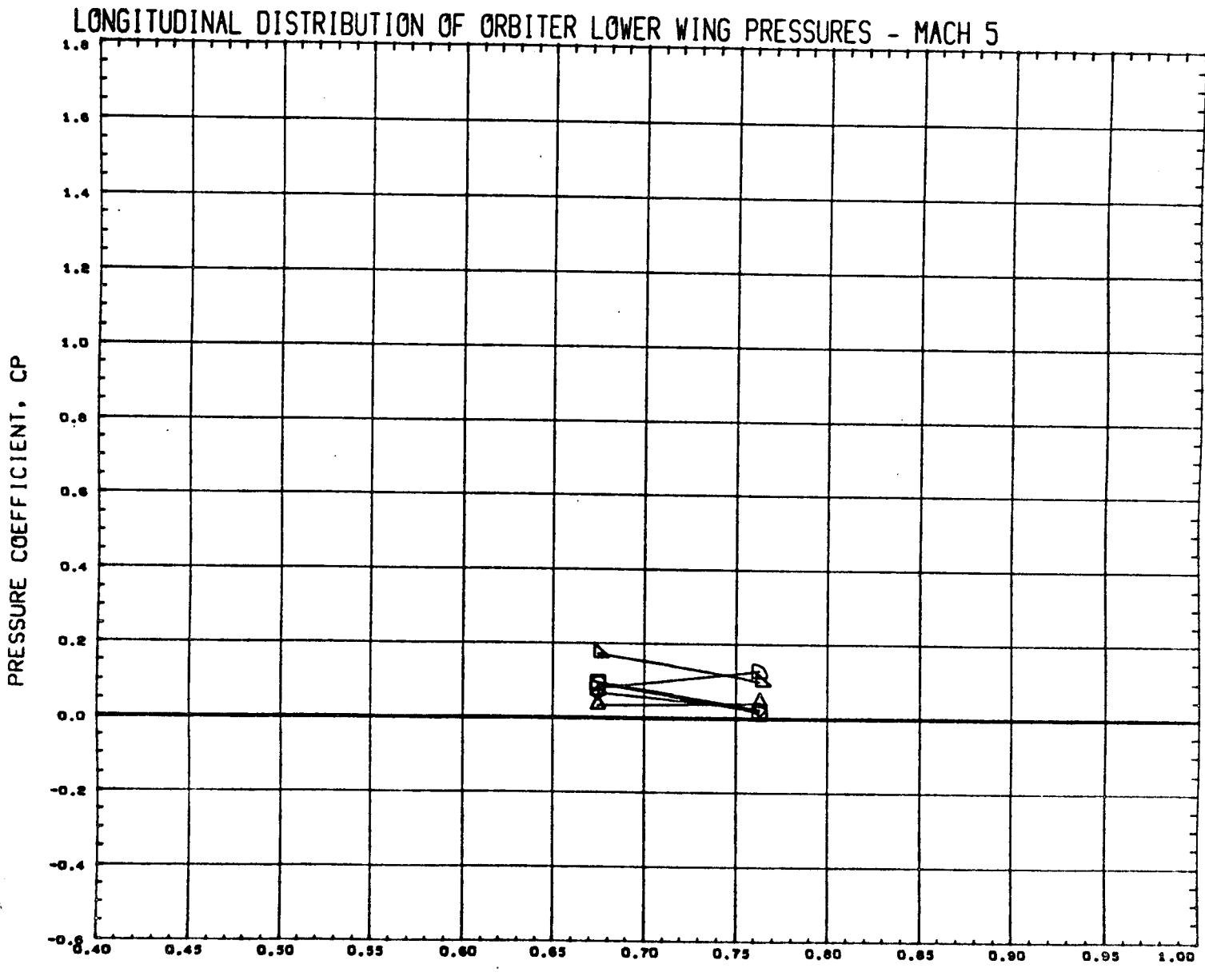
LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL DELTAX Y/B DELTAZ
 - 0.390 0.230 0.151
 - 0.143
 - 0.020
 0.103
 0.227
 0.390 REFERENCE FILE

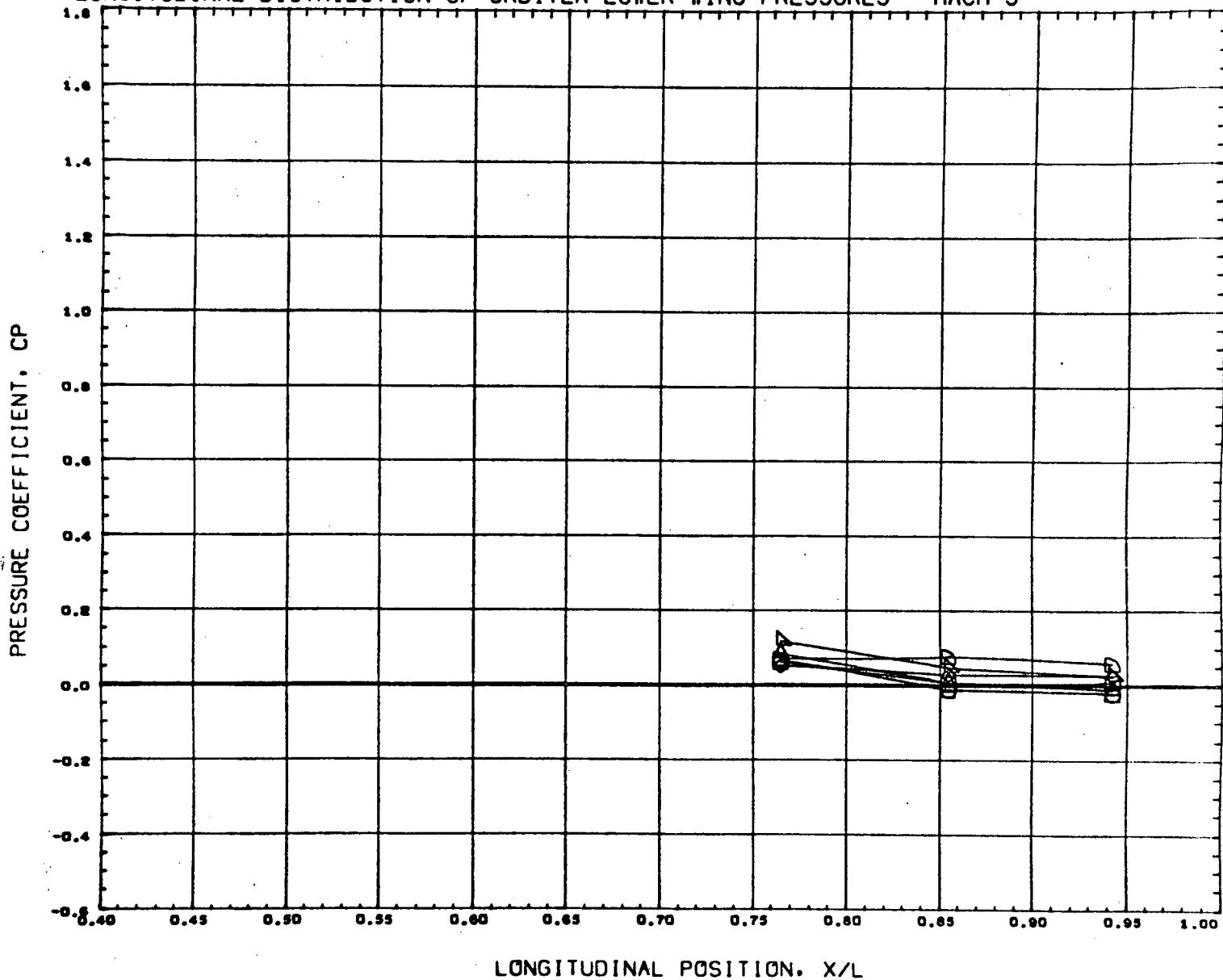
PARAMETRIC VALUES
 ALPHAB 0.050 MACH 4.940
 ALPHAT 0.000 ORBPOW 0.000
 BSTPOW 0.000



SYMBOL DELTAX Y/Z DELTAZ
 - 0.390 0.399 0.151
 - 0.143
 - 0.020
 0.103
 0.227
 0.390 REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	0.050	MACH	4.940
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



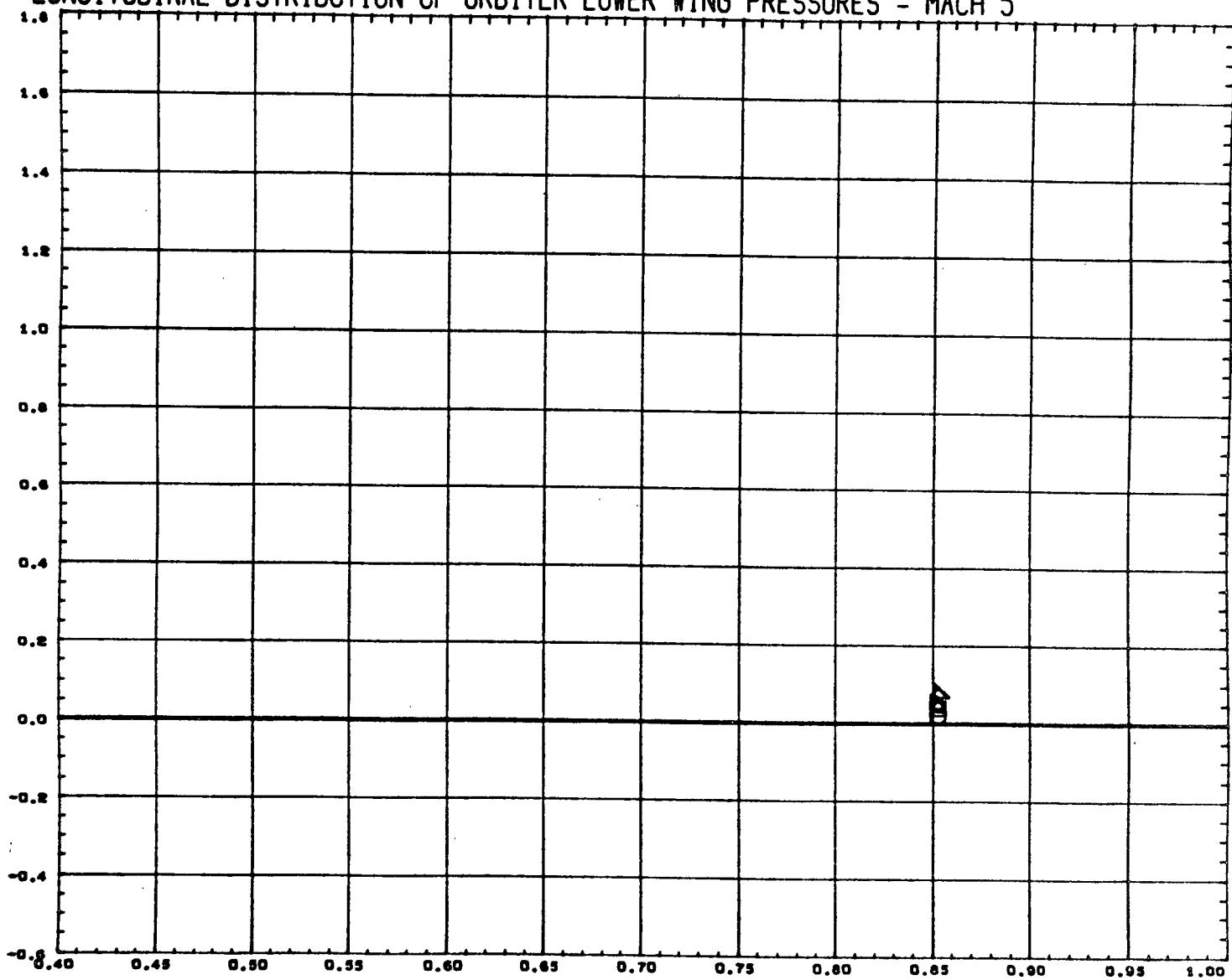
SYMBOL	DELTA X	T/E	DELTA Z
-	0.390	0.368	0.151
-	0.143		
-	0.020		
-	0.103		
-	0.227		
-	0.350		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	0.050	MACH	4.940
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP

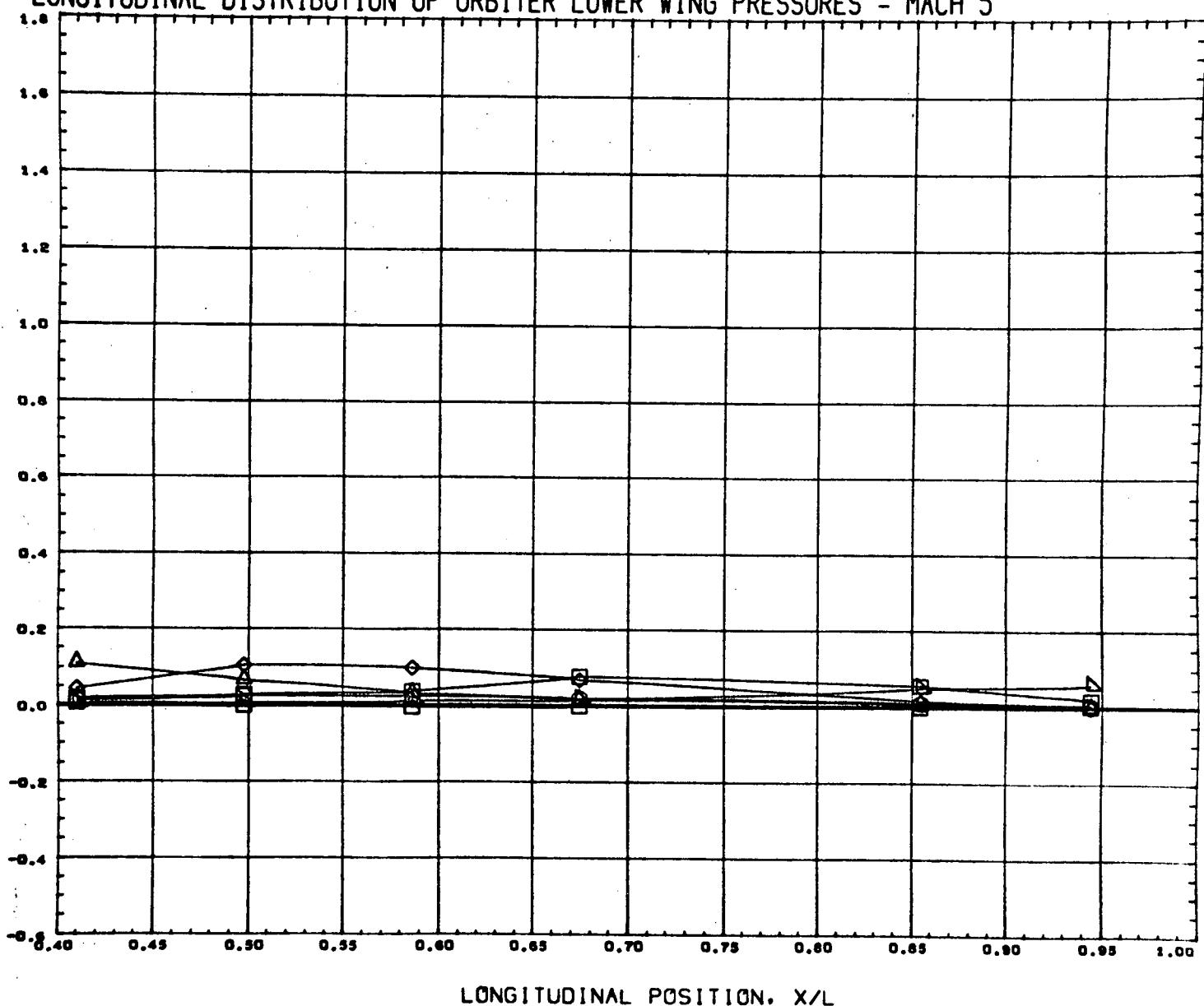


SYMBOL DELTAX Y/B DELTAZ
 - 0.390 0.739 0.151
 - 0.143
 - 0.020
 0.103
 0.227
 0.350 REFERENCE FILE

PARAMETRIC VALUES		
ALPHAB	0.050	MACH 4.940
ALPHAI	0.000	ORBPOW 0.000
BSTPOW	0.000	

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION, X/L

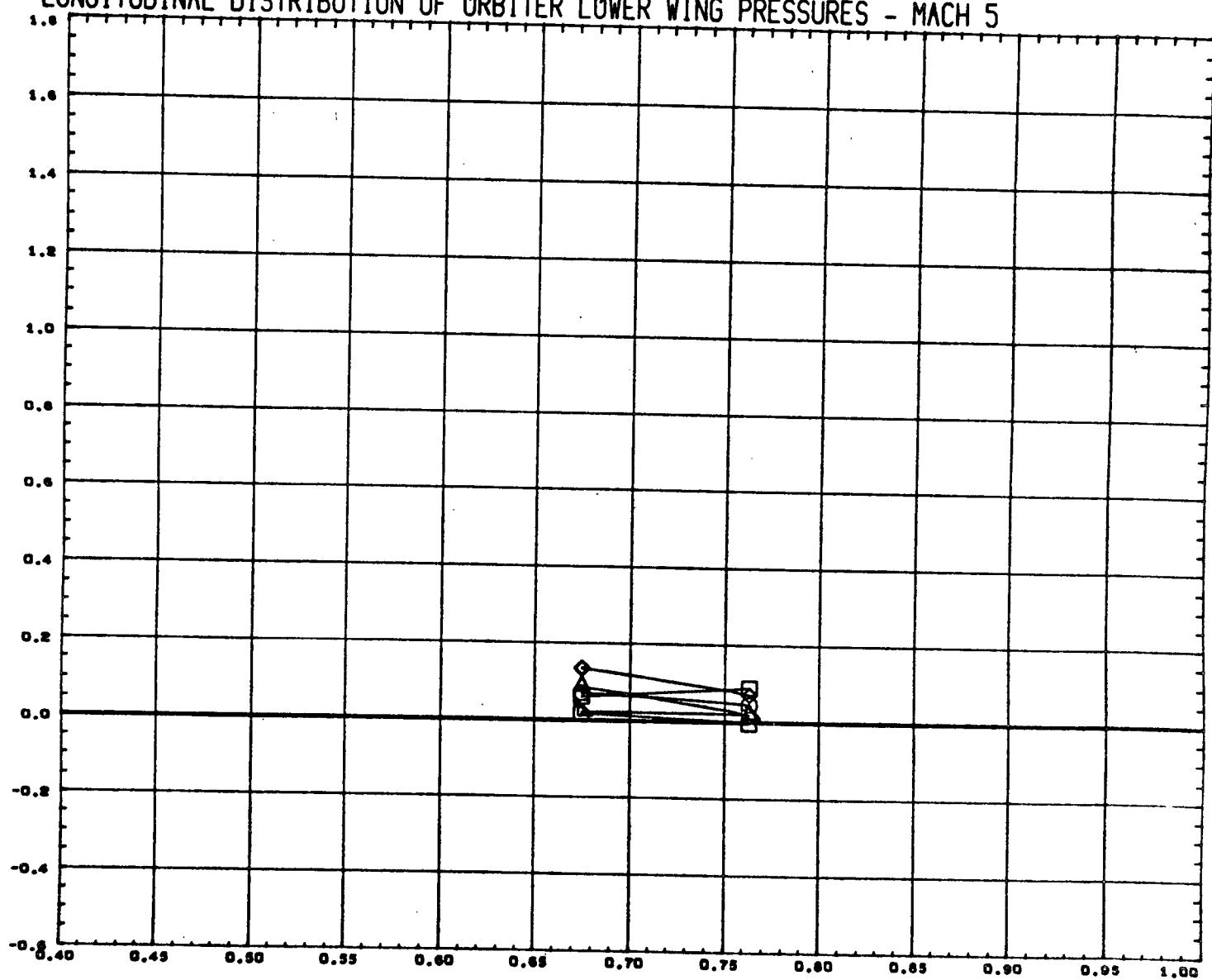
SYMBOL	DELTA X	T/B	DELTA Z
-	0.390	0.230	0.220
-	0.143		
-	0.020		
0.103			
0.227			
0.350			

REFERENCE FILE

PARAMETRIC VALUES		
ALPHAB	0.050	MACH 4.940
ALPHAI	0.000	ORBPOW 0.000
B&TPOW	0.000	

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION, X/L

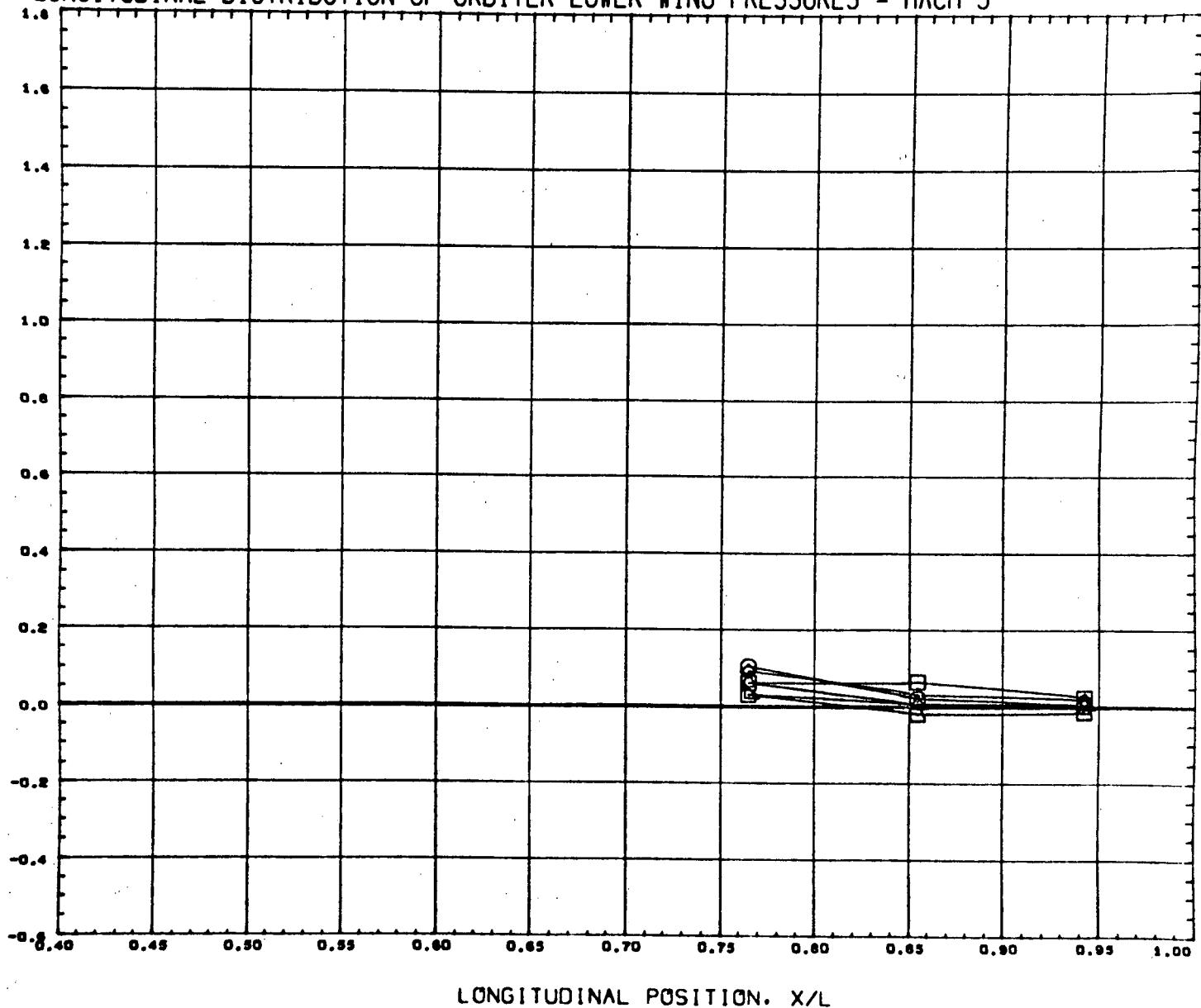
SYMBOL	DELTA X	Y/B	DELTA Z
-	0.390	0.399	0.226
-	0.143		
-	0.020		
-	0.103		
-	0.227		
-	0.350		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	0.050	MACH	4.940
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

PRESSURE COEFFICIENT, CP

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

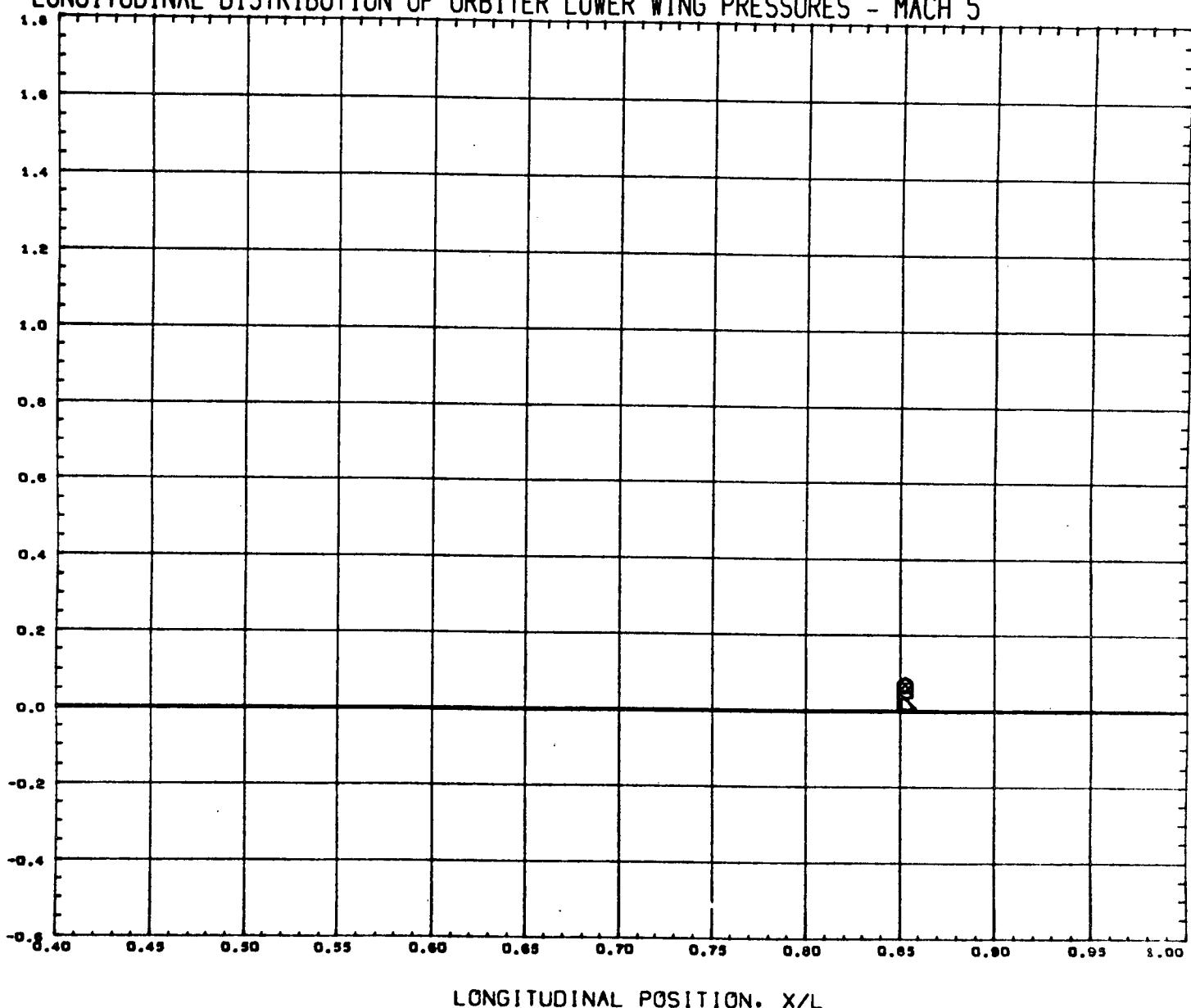
SYMBOL	DELTA X	Y/B	DELTA Z
-	0.390	0.560	0.229
-	0.143		
-	0.020		
-	0.103		
-	0.227		
-	0.350		

REFERENCE FILE

PARAMETRIC VALUES		
ALPHAB	0.050	MACH
ALPHAI	0.000	ORBPOW
BSTPOW	0.000	

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

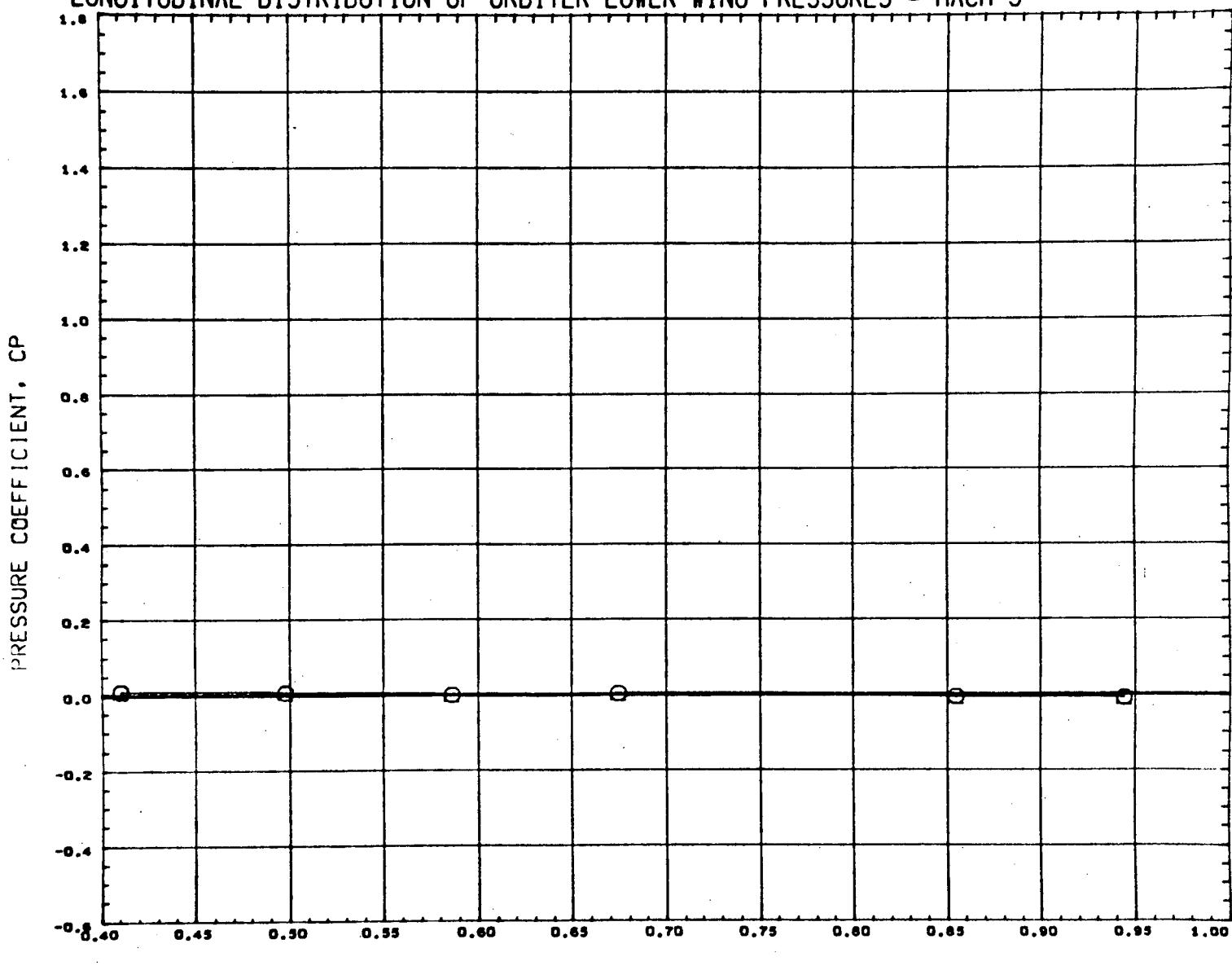
PRESSURE COEFFICIENT, CP



SYMBOL DELTAX Y/L DELTAZ
○ - 0.390 0.738 0.220
△ - 0.143
□ - 0.020
○ 0.103
△ 0.227
□ 0.350 REFERENCE FILE

PARAMETRIC VALUES		
ALPHAB	0.030	MACH 4.940
ALPHAI	0.000	ORBPOW 0.000
BSTPOW	0.000	

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL DELTAX Y/E DELTAZ
C 0.520 0.230 0.908

PARAMETRIC VALUES			
ALPHAB	0.050	MACH	4.940
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

REFERENCE FILE

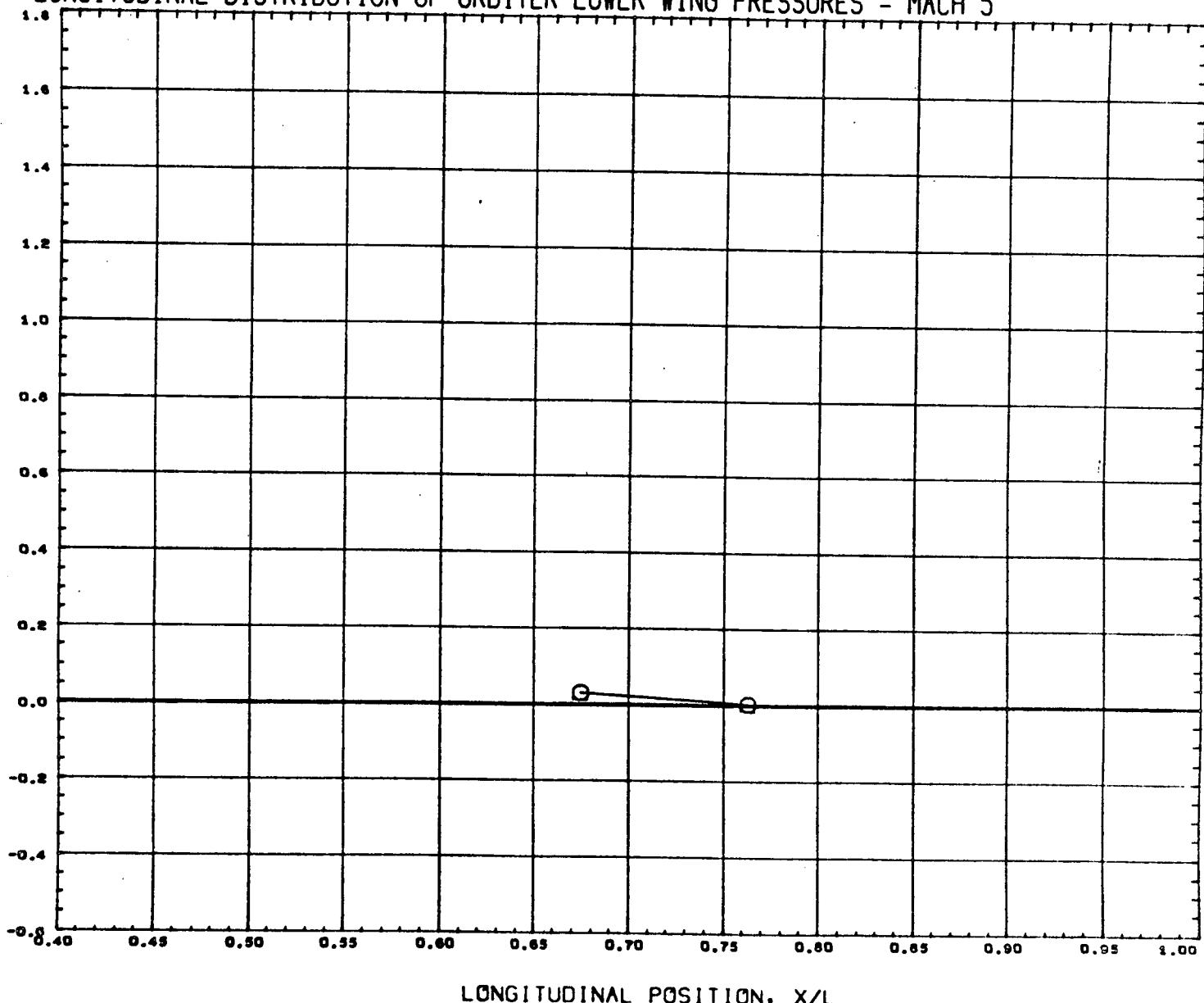
AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



LONGITUDINAL POSITION. X/L

SYMBOL DELTAX Y/B DELTAZ
C 0.520 0.399 0.908

	ALPHAB	MACH	4.940
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

REFERENCE FILE

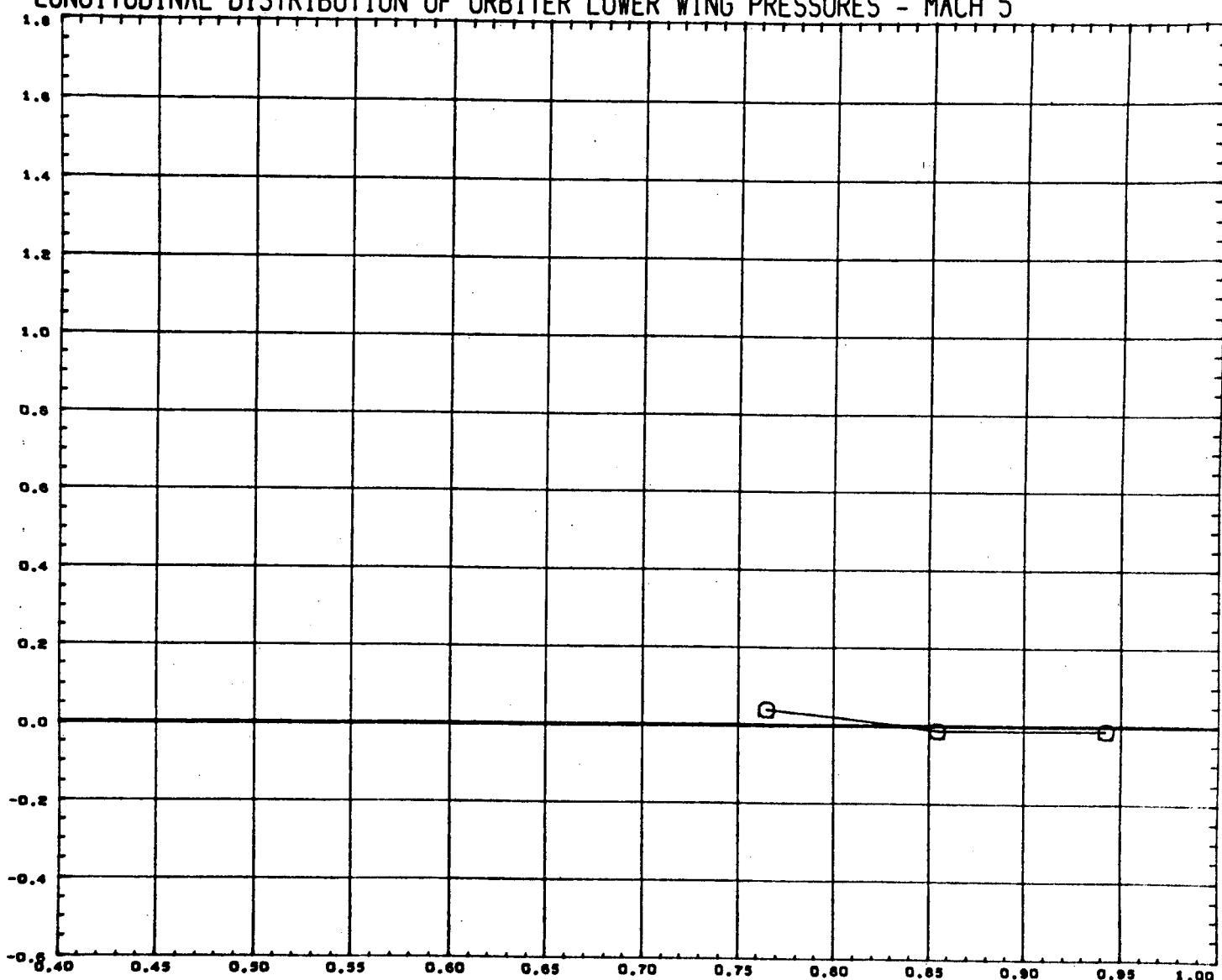
AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION, X/L

SYMBOL DELTAX Y/B DELTAZ
○ 0.920 0.568 0.908

PARAMETRIC VALUES		
ALPHAB	0.050	MACH 4.940
ALPHAI	0.000	ORBPOW 0.000
BSTPOW	0.000	

REFERENCE FILE

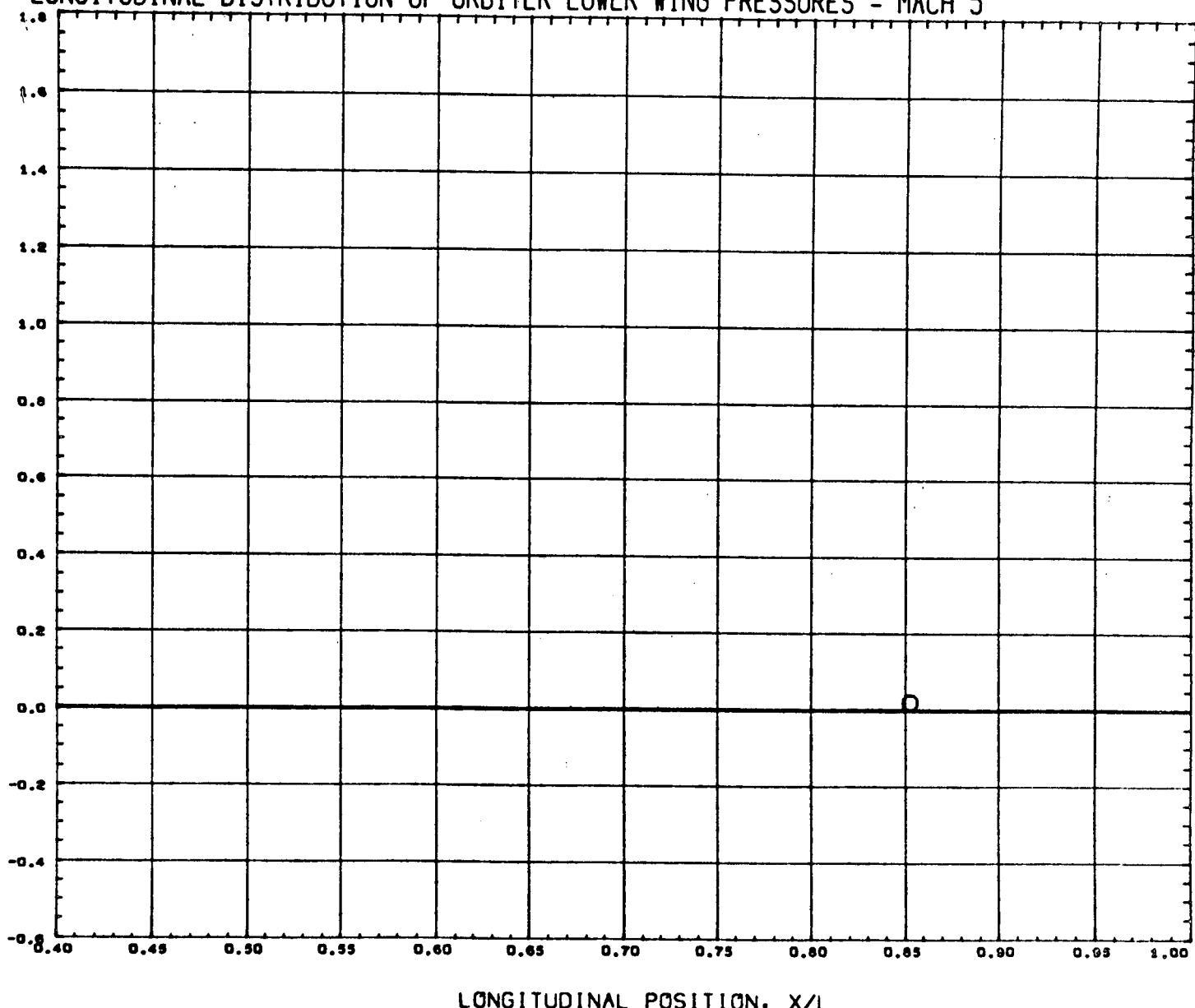
AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION. X/L

SYMBOL DELTAX Y/B DELTAZ
C 0.920 0.739 0.908

PARAMETRIC VALUES
ALPHAB 0.050 MACH 4.940
ALPHAI 0.000 ORBPOW 0.000
BSPW 0.000

REFERENCE FILE

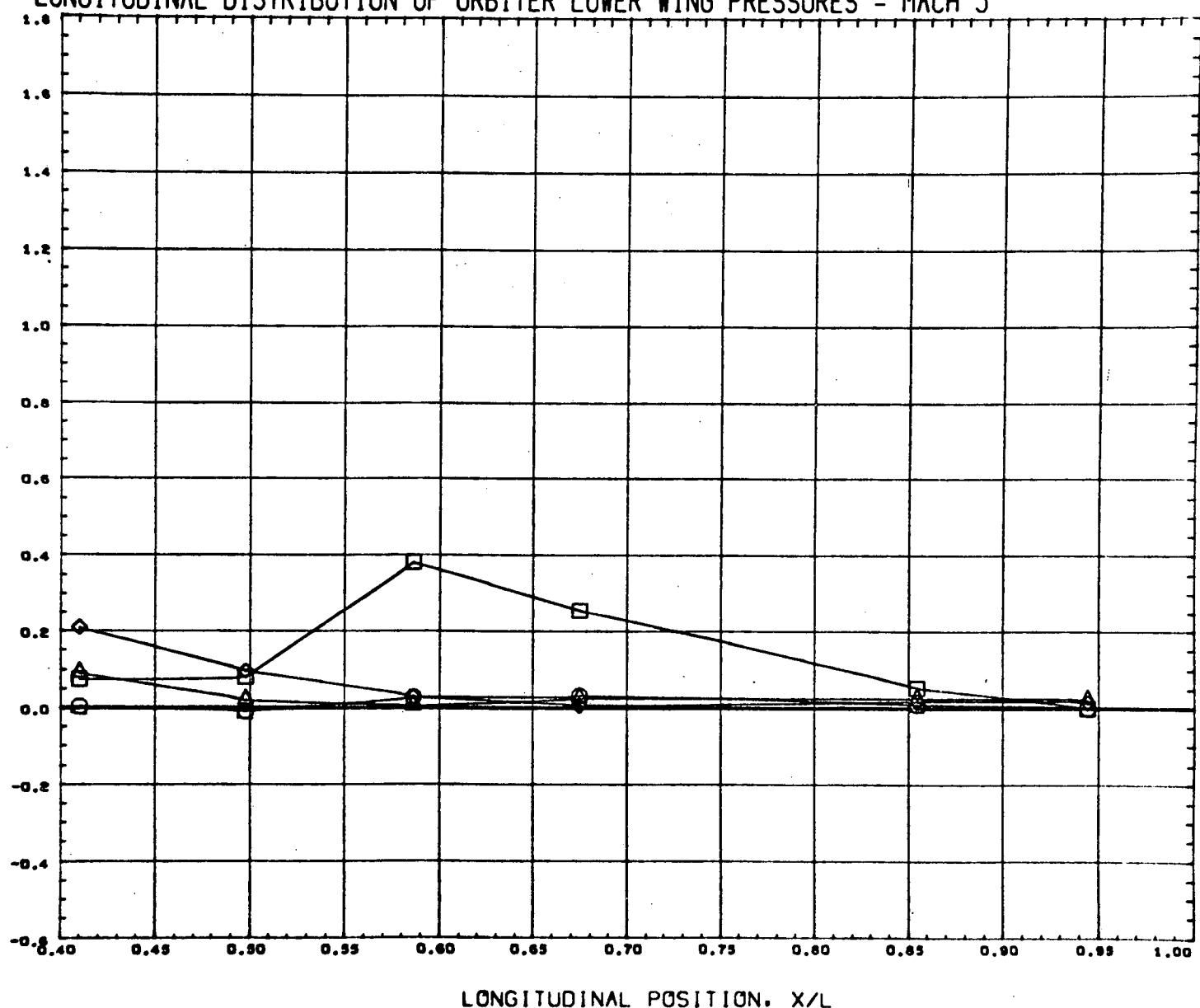
AEDC VAI163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	T/B	DELTA Z
○	0.041	0.230	0.114
△	0.103		
◊	0.165		
□	0.390		

PARAMETRIC VALUES		
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ALPHAI	0.000	ORBPOW
BSTPOW	0.000	

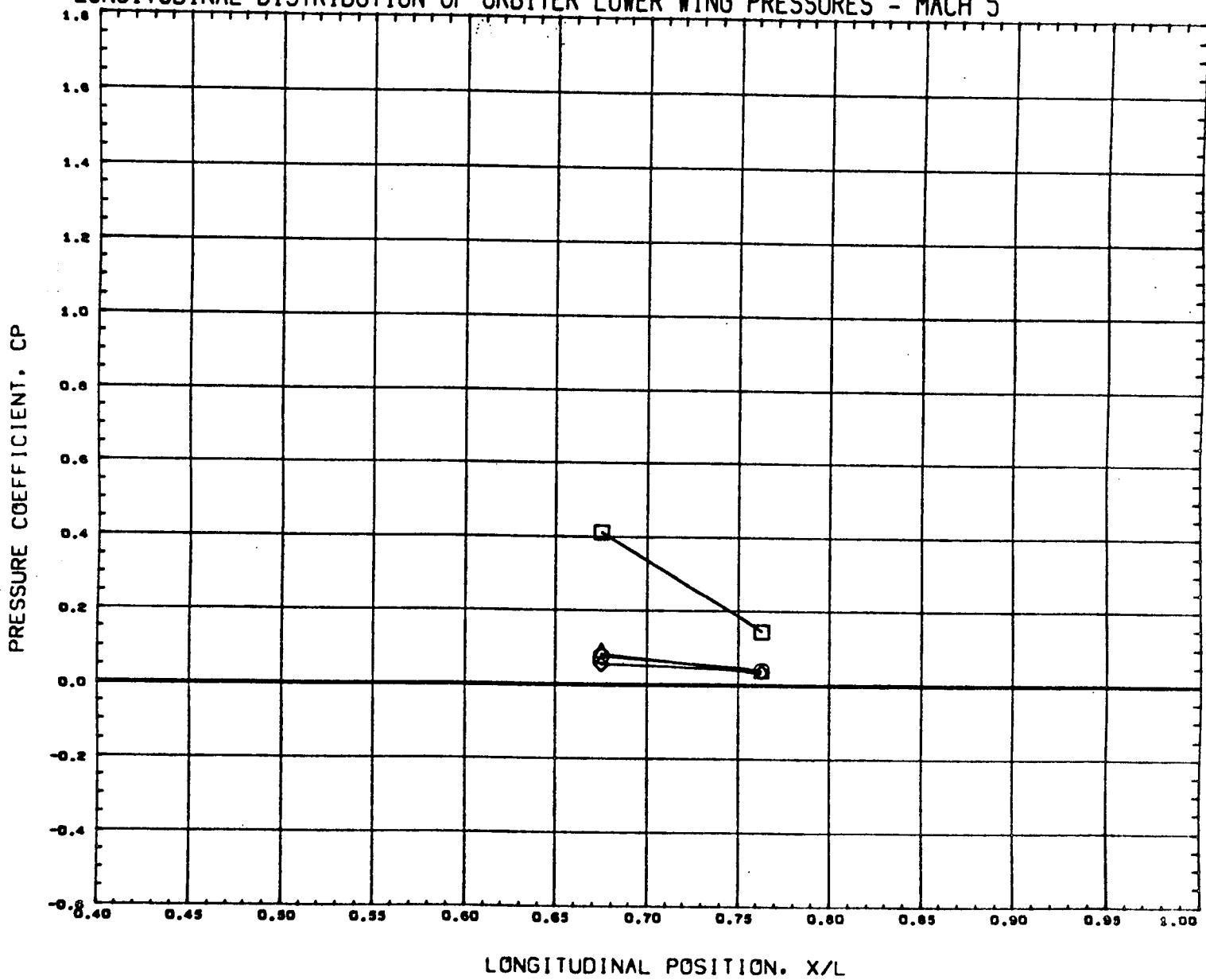
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION. X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.041	0.399	0.114
△	0.103		
◊	0.163		
□	0.350		

PARAMETRIC VALUES		
ALPHAB	5.020	MACH
ALPHAI	0.000	ORBPOW
BSTPOW	0.000	

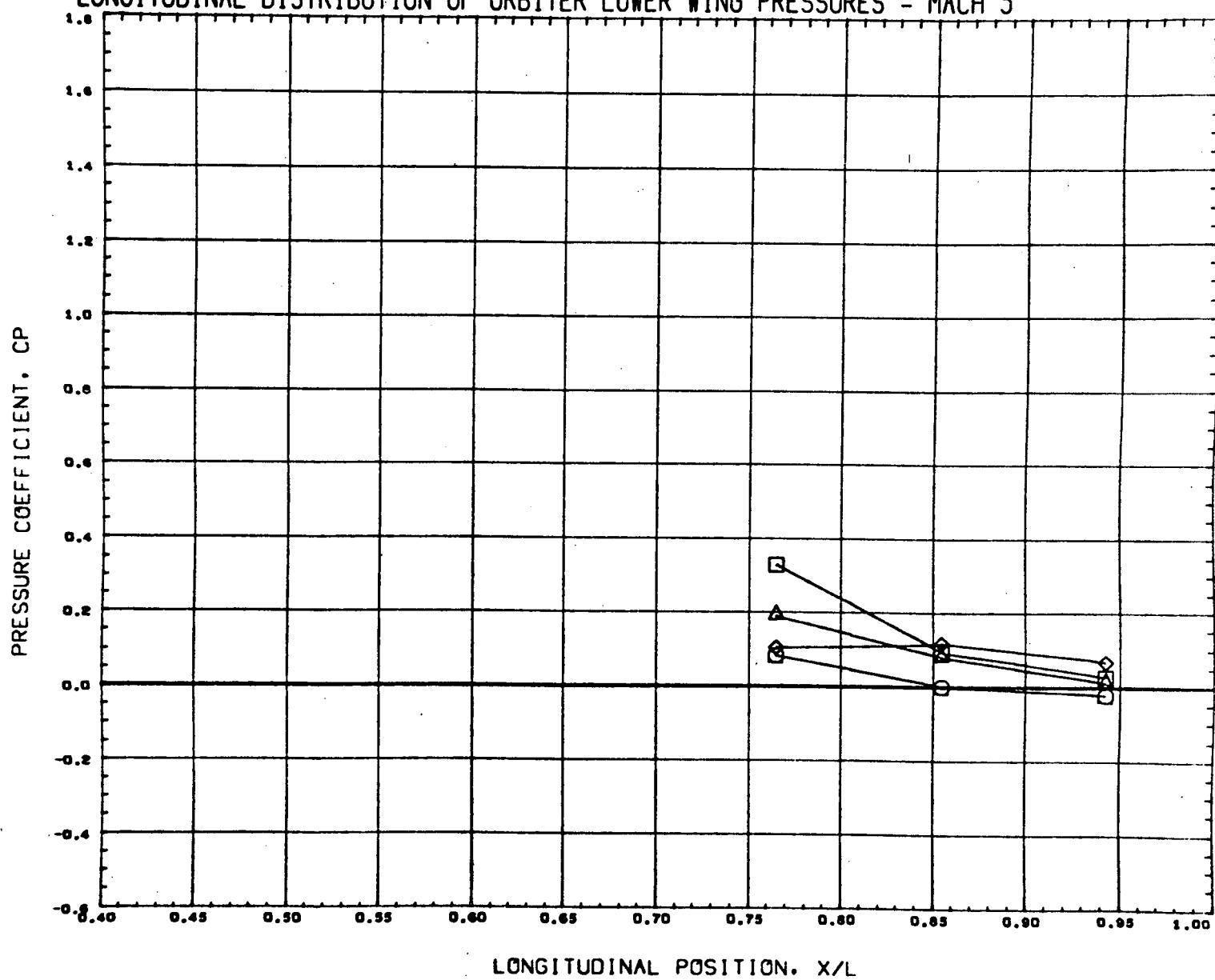
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8514•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



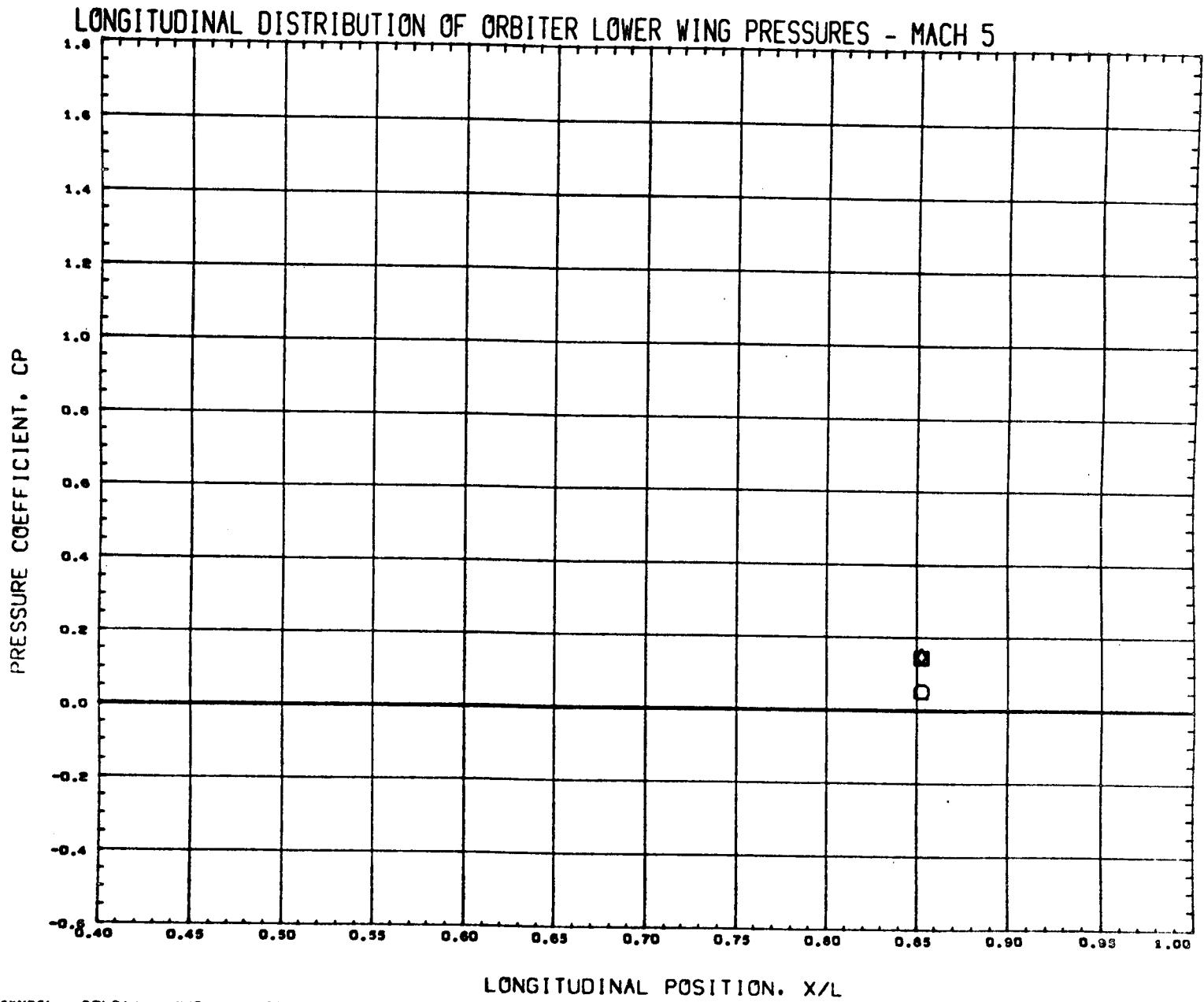
PARAMETRIC VALUES
 ALPHAB 5.020 MACH 4.940
 ALPHAI 0.000 ORBPOW 0.000
 BSTPOW 0.000

REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

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SYMBOL	DELTAX	Y/B	DELTAZ
Δ	0.041	0.739	0.114
\square	0.103		
Δ	0.165		
\square	0.350		

PARAMETRIC VALUES			
ALPHAB	5.020	MACH	4.940
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

REFERENCE FILE

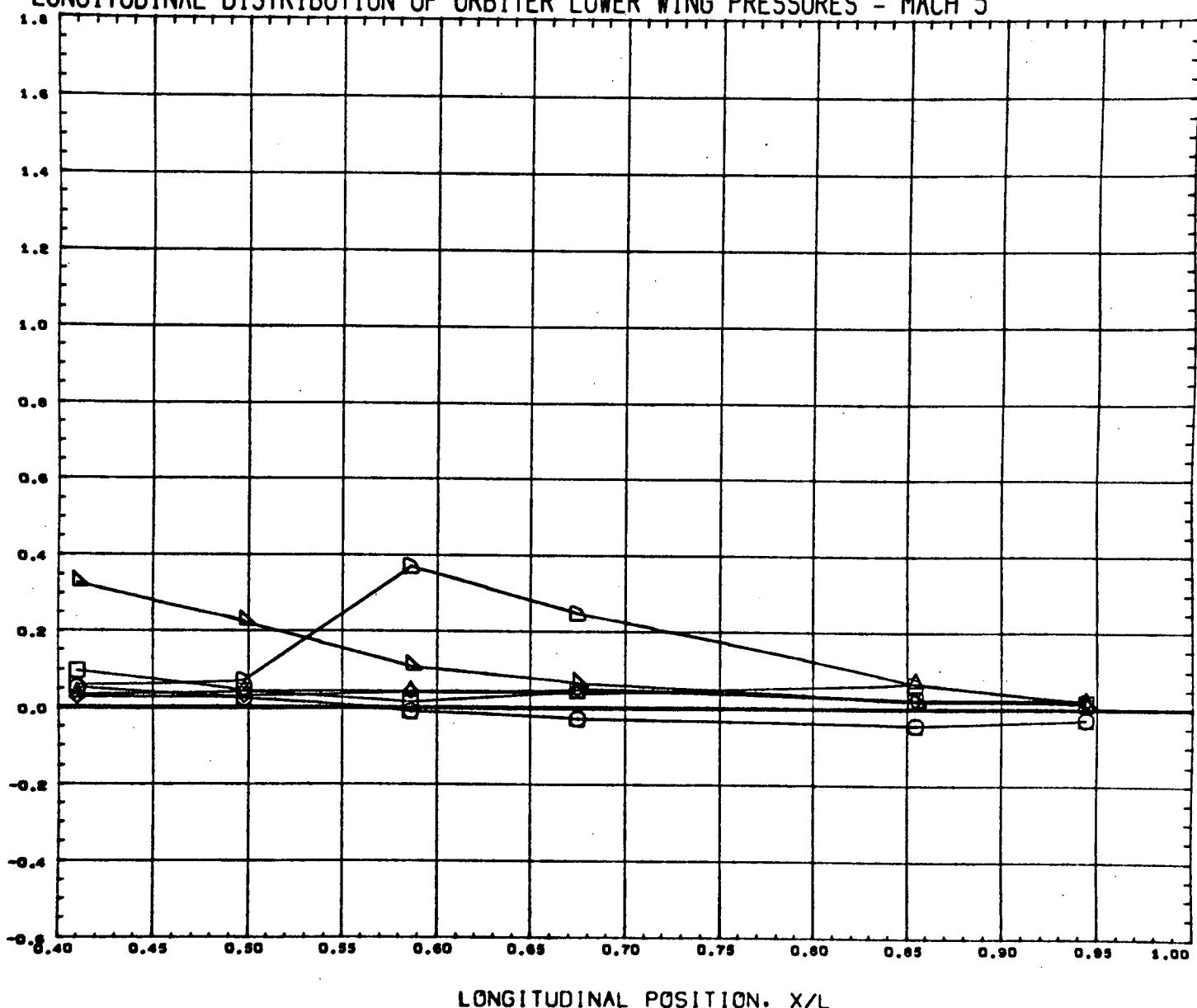
AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP

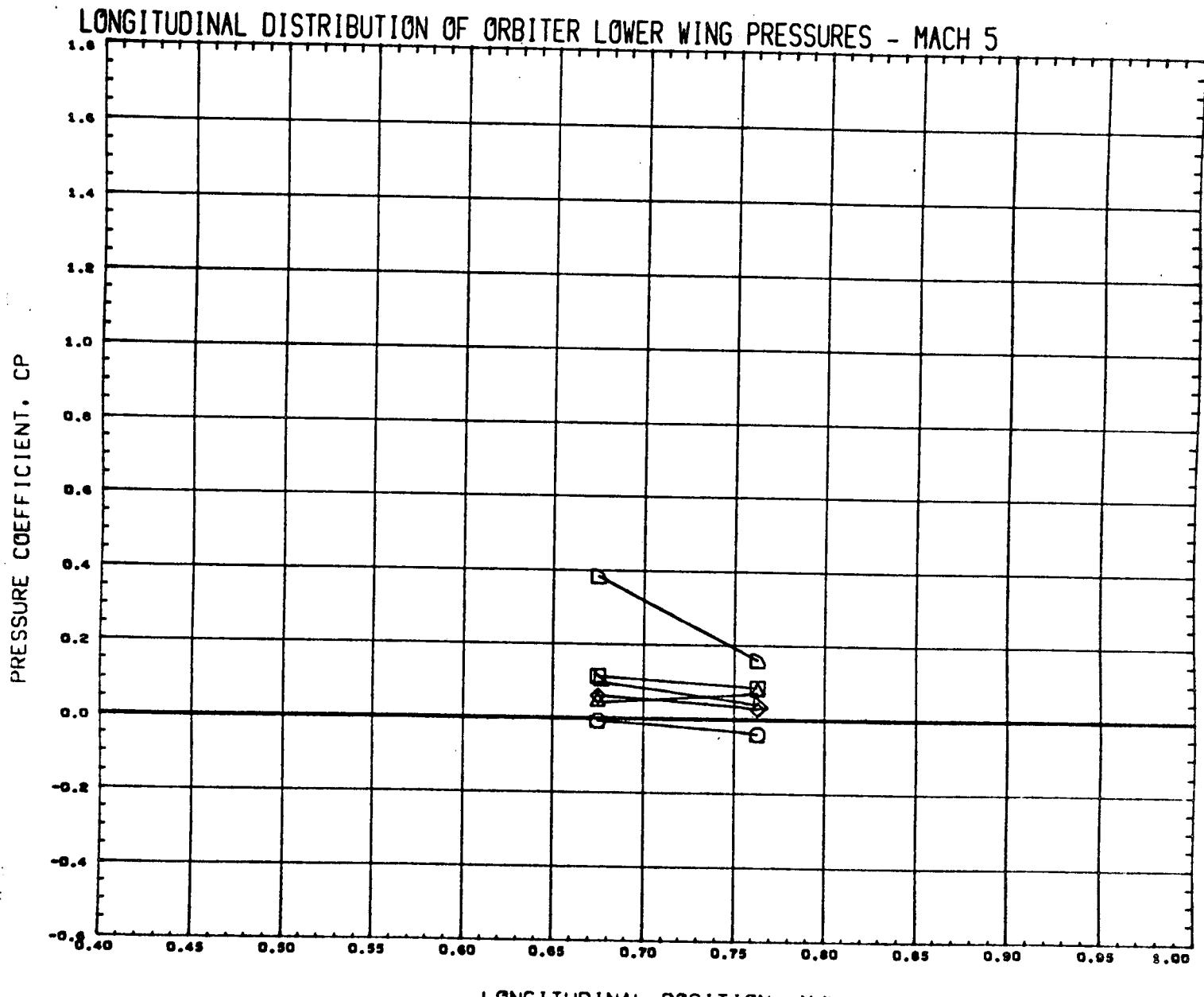


LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	T/B	DELTA Z
-	0.390	0.230	0.120
-	0.143		
-	0.020		
-	0.103		
-	0.227		
-	0.350		

REFERENCE FILE

PARAMETRIC VALUES		
ALPHAB	5.020	MACH
ALPHAI	0.000	ORBPOW
BSTPOW	0.000	



SYMBOL	DELTA X	Y/B	DELTA Z
-	0.390	0.399	0.120
-	0.143		
-	0.020		
-	0.103		
-	0.227		
-	0.390		

REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

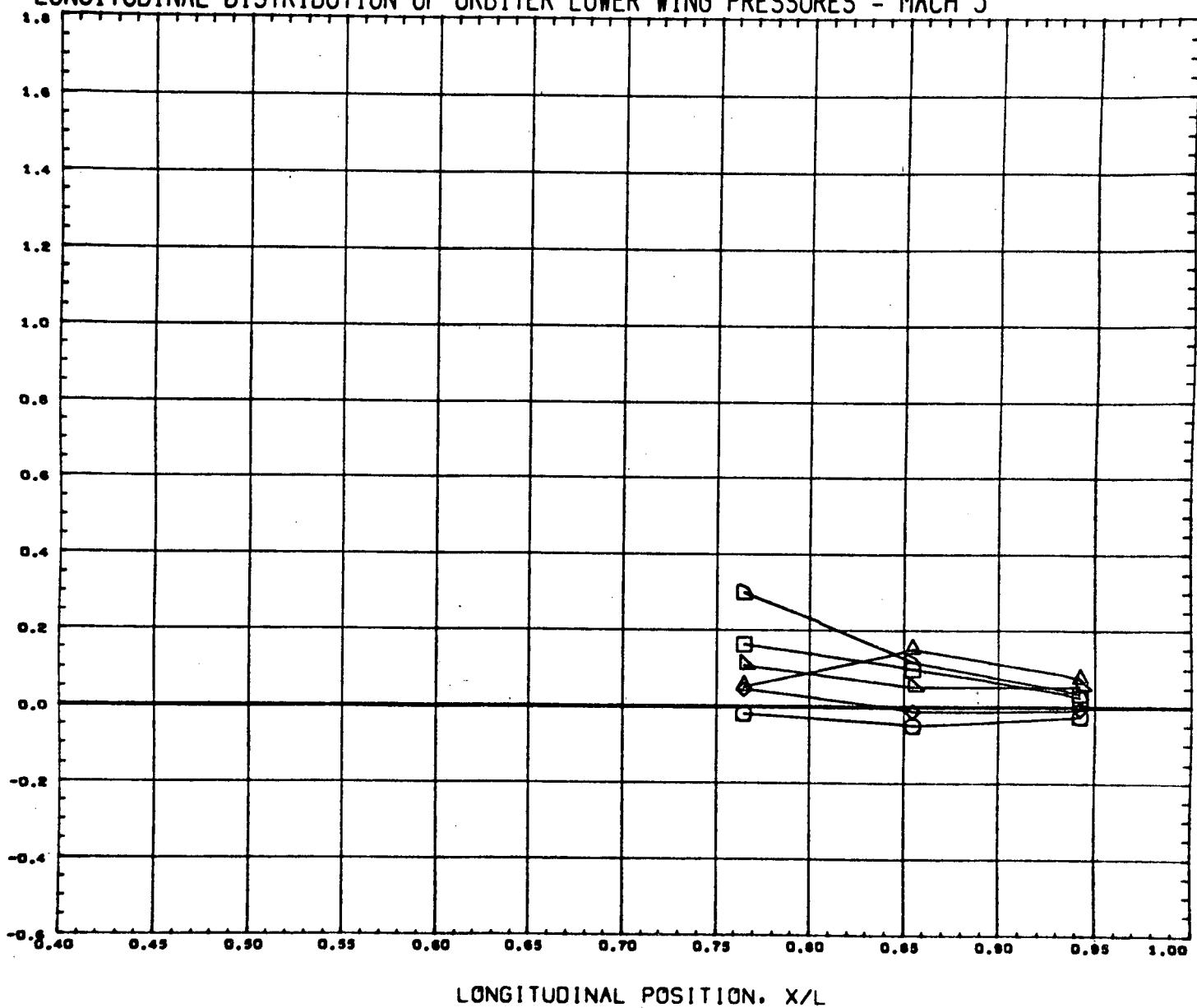
PARAMETRIC VALUES			
ALPHAB	5.020	MACH	4.940
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



LONGITUDINAL POSITION. X/L

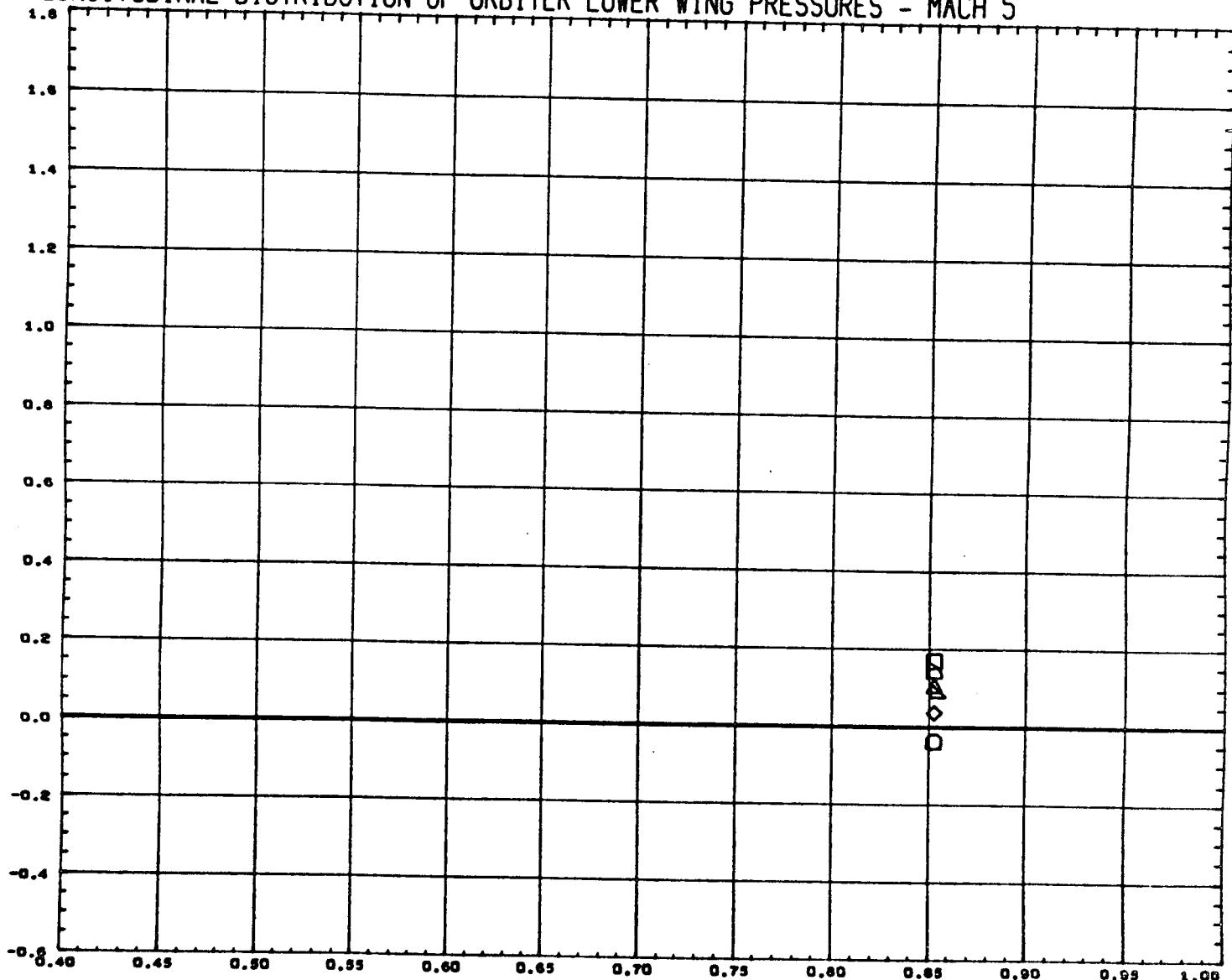
SYMBOL	DELTA X	T/E	DELTA Z
-	0.390	0.568	0.120
-	0.143		
-	0.020		
o	0.103		
o	0.227		
o	0.350		

REFERENCE FILE

PARAMETRIC VALUES		
ALPHAB	9.020	MACH
ALPHAI	0.000	ORBPOW
B&TPOW	0.000	

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



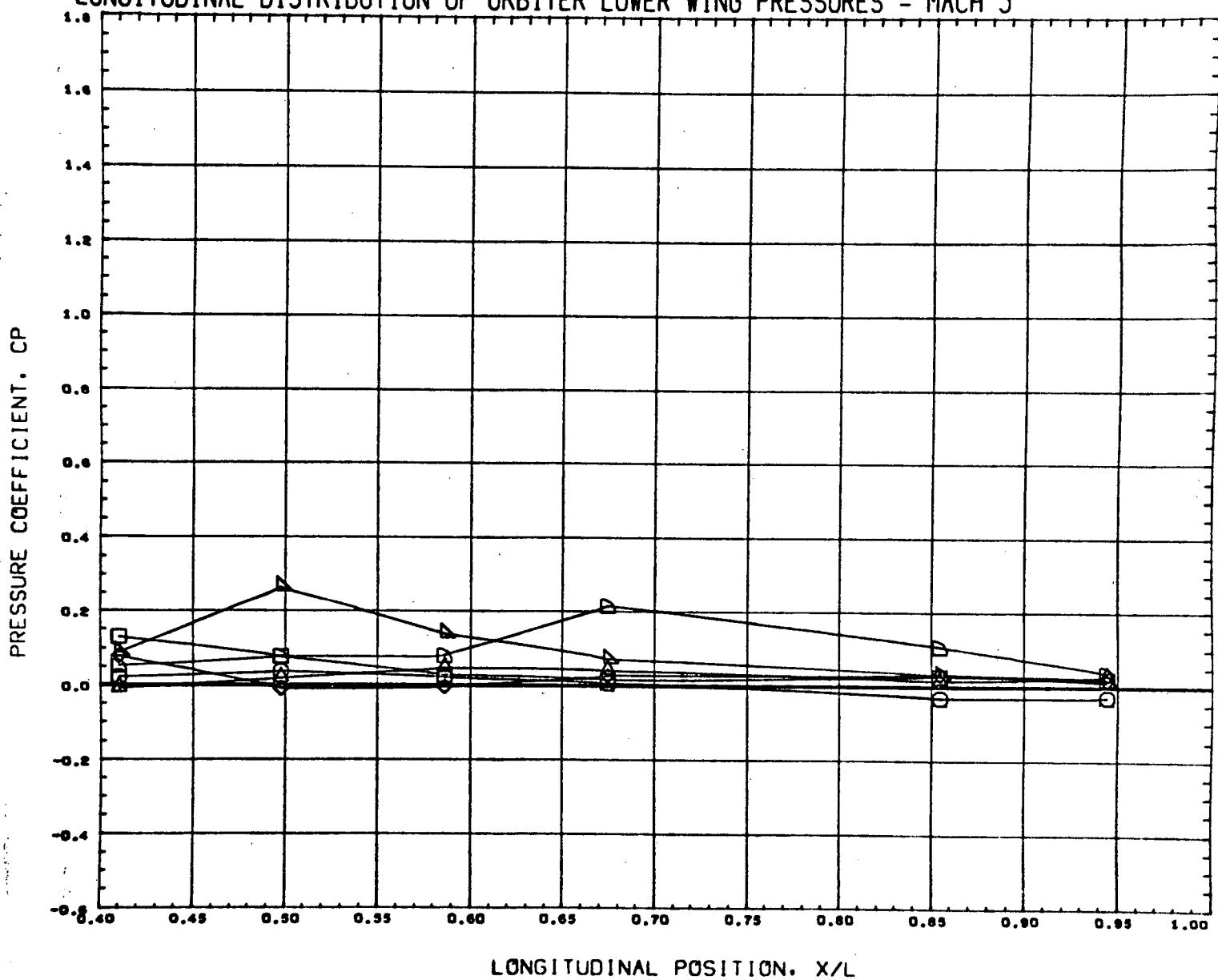
LONGITUDINAL POSITION. X/L

SYMBOL	DELTA X	Y/L	DELTA Z
-	0.390	0.738	0.120
-	0.143		
-	0.020		
-	0.103		
-	0.227		
-	0.350		

REFERENCE FILE

PARAMETRIC VALUES		
ALPHAB	5.020	MACH
ALPHAI	0.000	ORBPOW
BSTPOW	0.000	

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

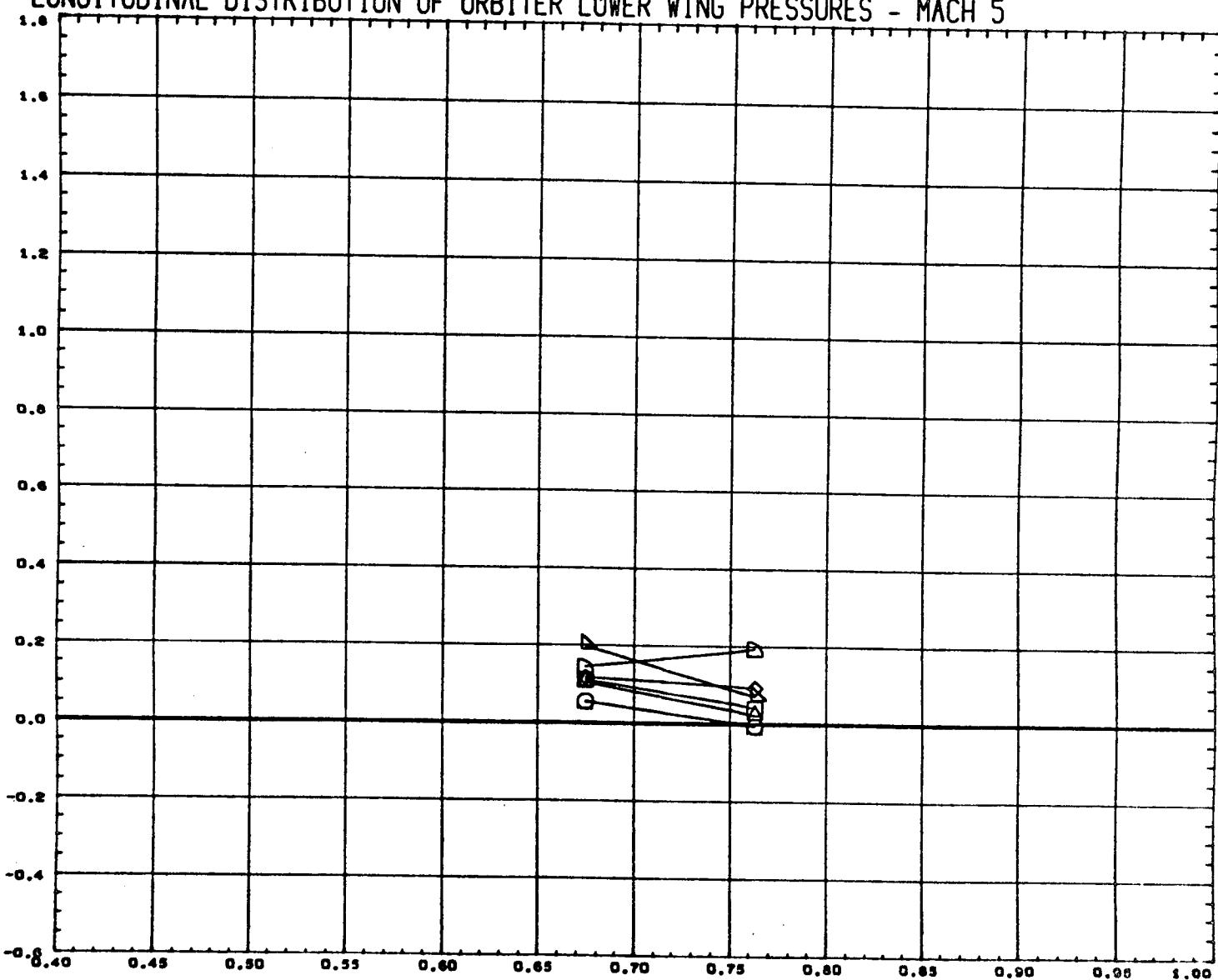


SYMBOL DELTAX Y/B DELTAZ
 - 0.390 0.230 0.151
 - 0.143 -
 - 0.020 -
 - 0.103 -
 - 0.227 -
 - 0.390 -
 REFERENCE FILE

PARAMETRIC VALUES
 ALPHAB 5.020 MACH 4.940
 ALPHAI 0.000 ORBPOW 0.000
 BSTPOW 0.000

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



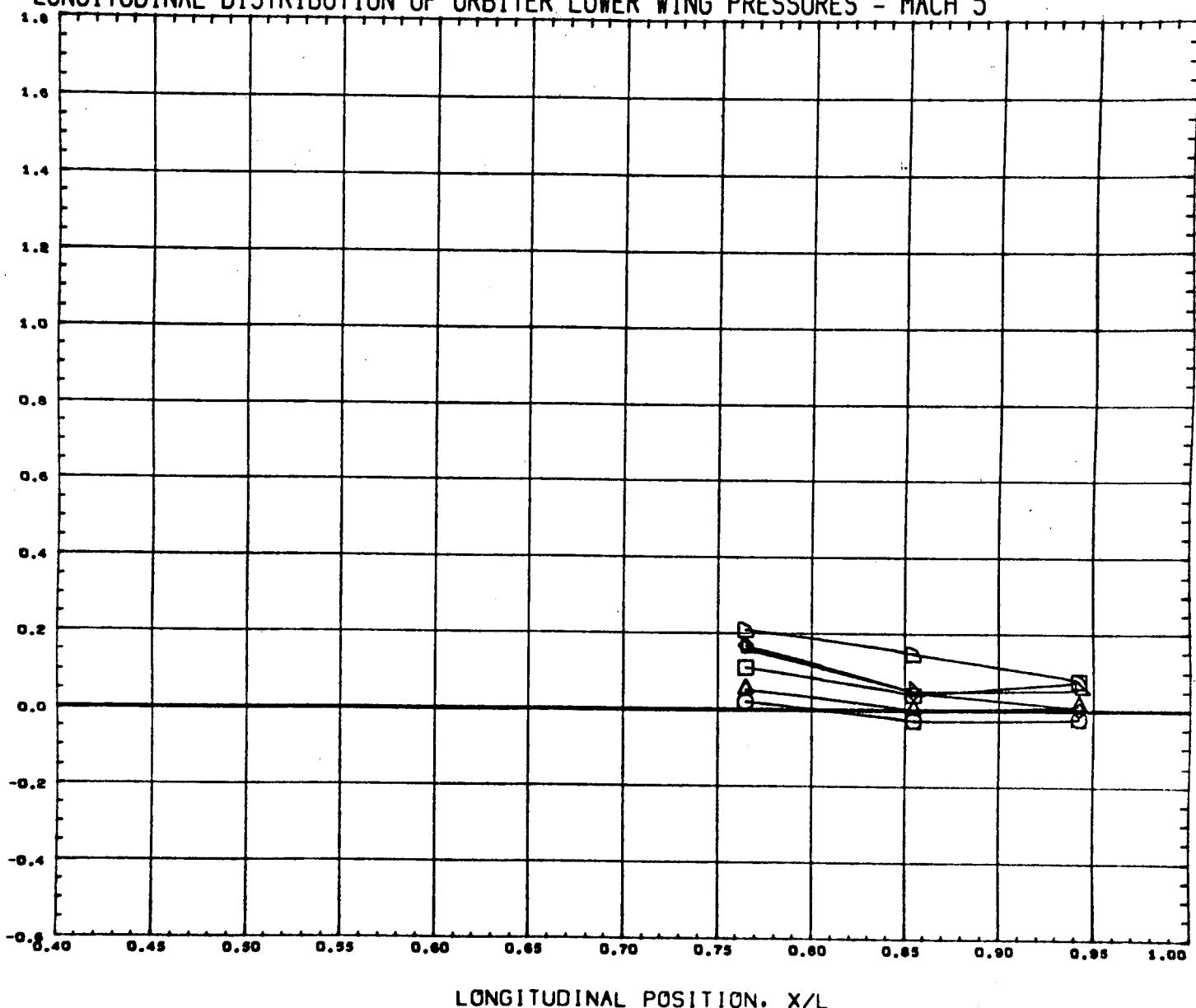
LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/Z	DELTA Z
-	0.390	0.399	0.151
-	0.143		
-	0.020		
-	0.103		
-	0.227		
-	0.390	REFERENCE FILE	

PARAMETRIC VALUES			
ALPHAB	5.020	MACH	4.940
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION, X/L

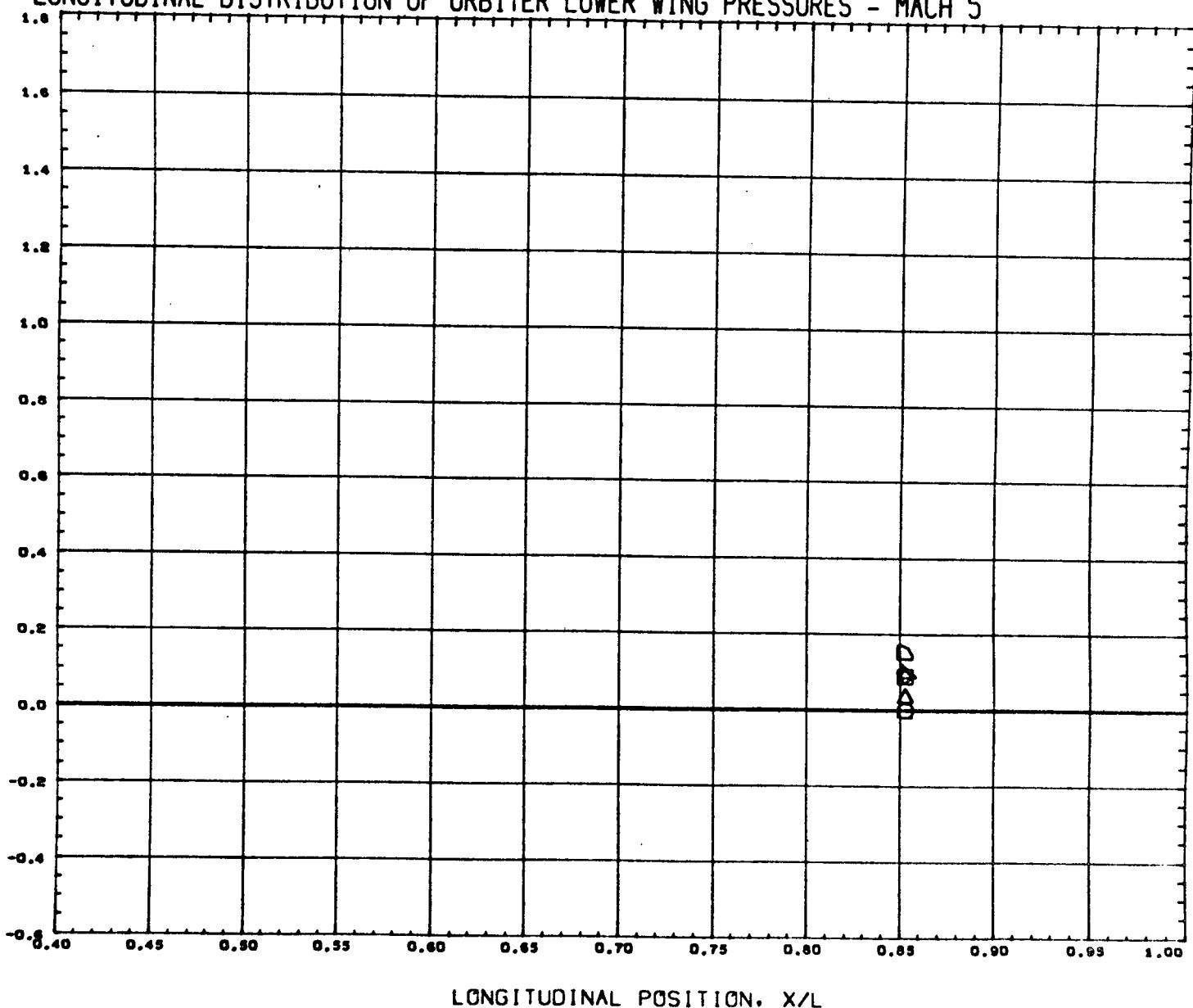
SYMBOL	DELTA X	T/B	DELTA Z
A	- 0.390	0.368	0.151
B	- 0.143		
C	- 0.020		
D	0.103		
E	0.227		
F	0.390		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	5.020	MACH	4.940
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP

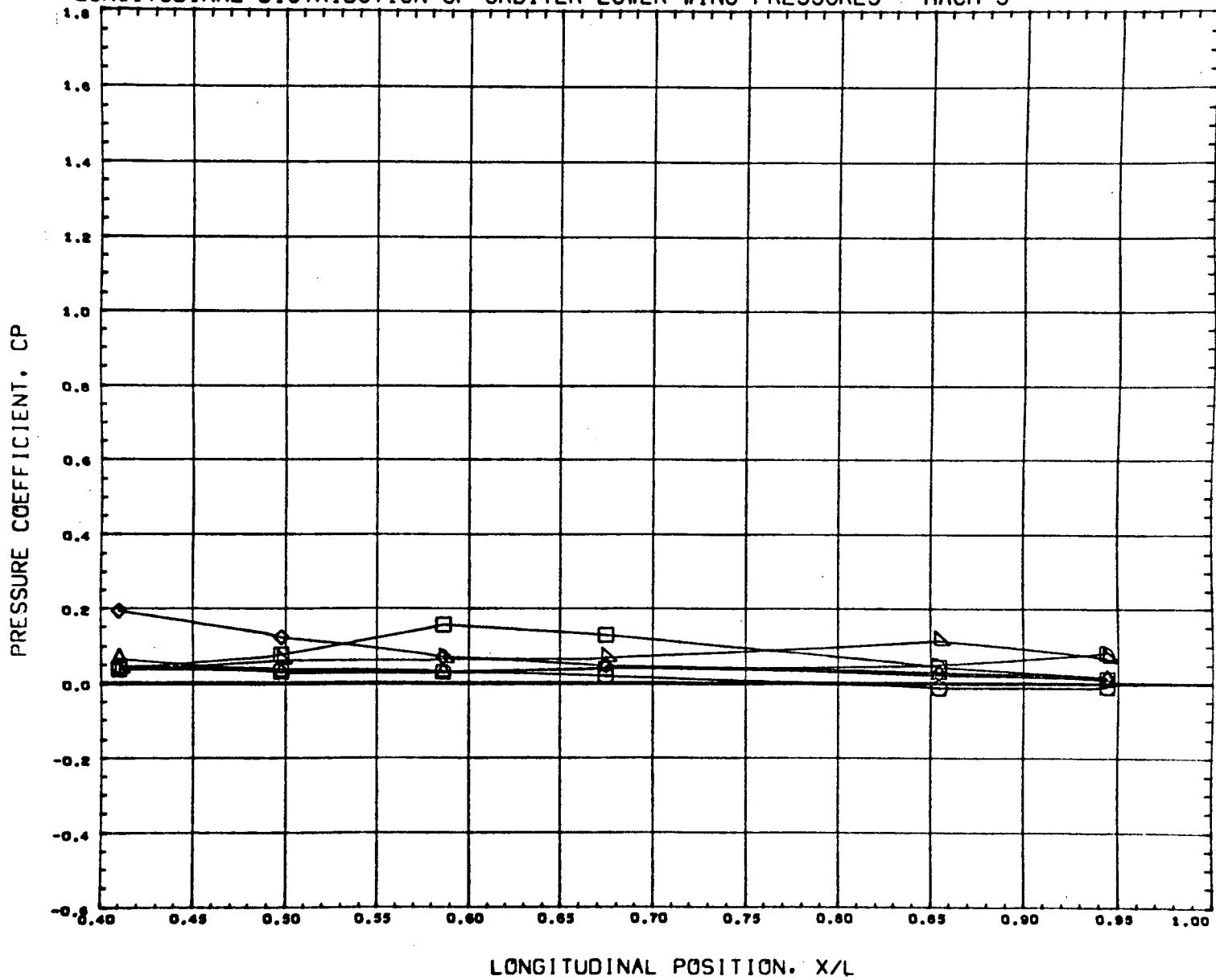


SYMBOL DELTAX Y/Z DELTAZ
 - 0.390 0.730 0.151
 - 0.143
 - 0.020
 0.103
 0.227
 0.390 REFERENCE FILE

LONGITUDINAL POSITION, X/L

PARAMETRIC VALUES			
ALPHAB	5.020	MACH	4.940
ALPHAT	0.000	ORBPOW	0.000
BSTPOW	0.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION. X/L

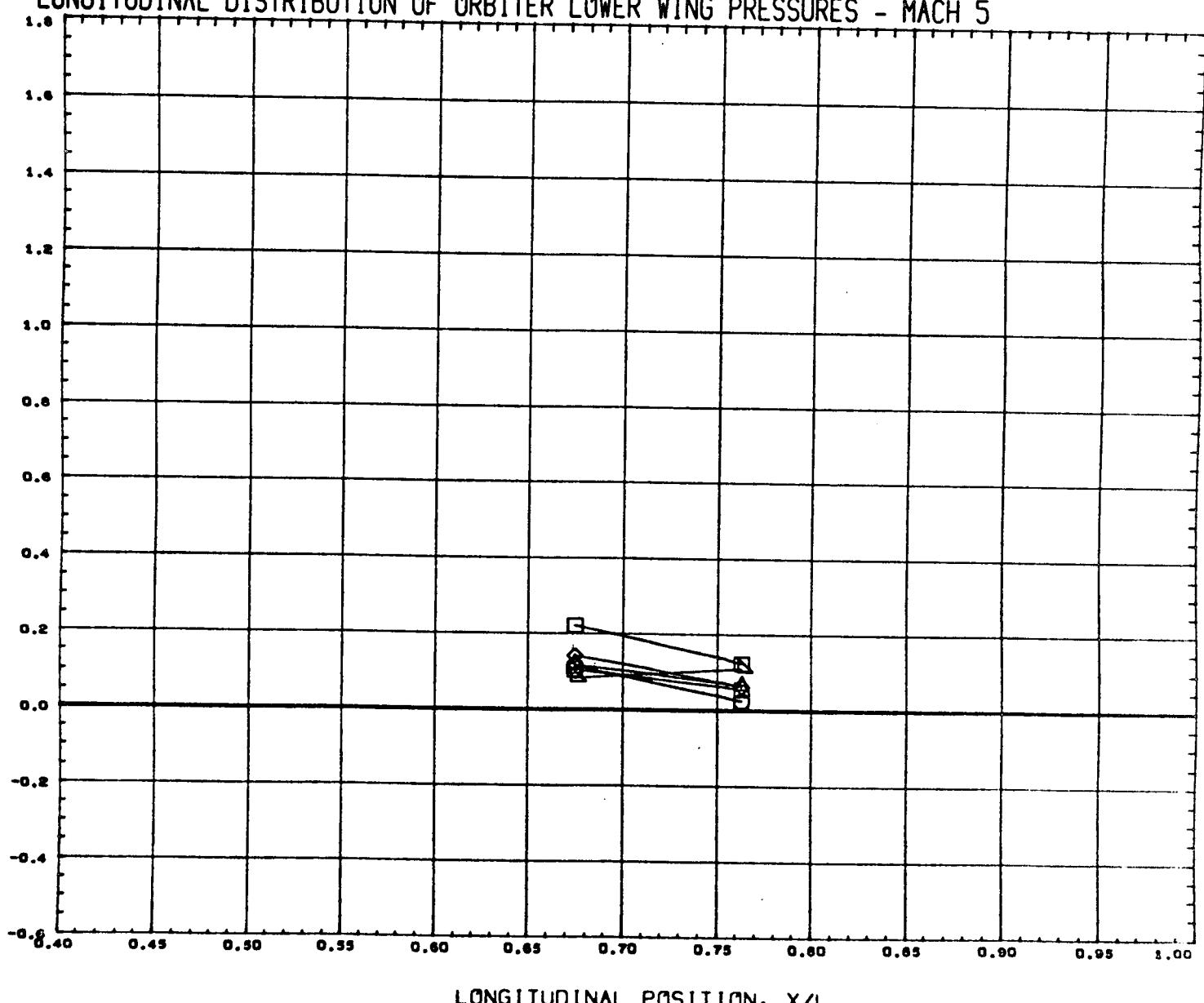
SYMBOL	DELTAX	T/B	DELTAZ
-	0.390	0.230	0.220
-	0.143		
-	0.020		
-	0.103		
-	0.227		
-	0.350		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	5.020	MACH	4.940
ALPHAT	0.000	ORBPOW	0.000
BSTPOW	0.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION, X/L

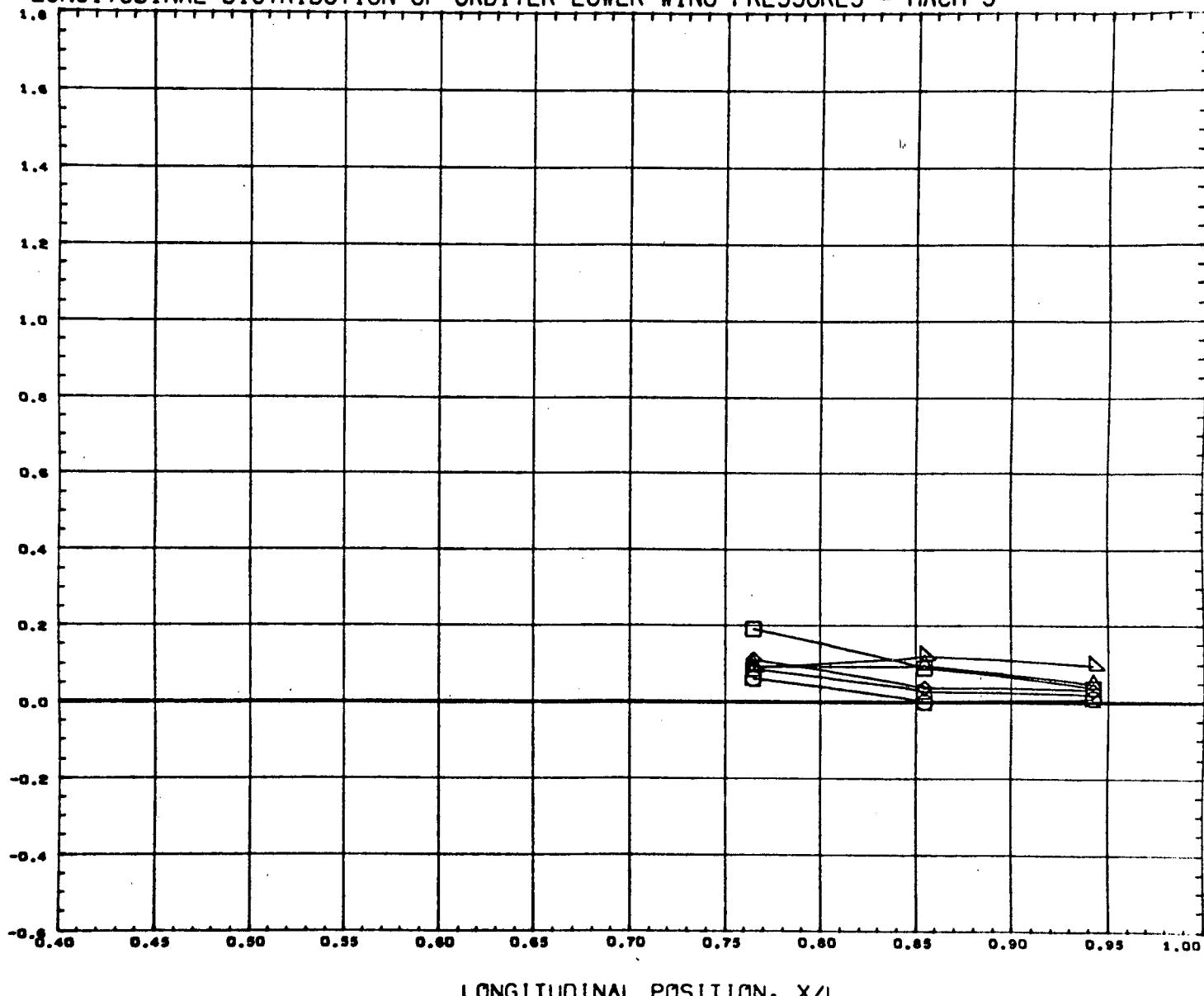
SYMBOL	DELTA X	T/B	DELTA Z
-	0.390	0.399	0.228
-	0.143		
-	0.020		
-	0.193		
-	0.227		
-	0.350		

REFERENCE FILE

PARAMETRIC VALUES		
ALPHAB	5.020	MACH
ALPHAI	0.000	ORBPOW
BSTPOW	0.000	

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION, X/L

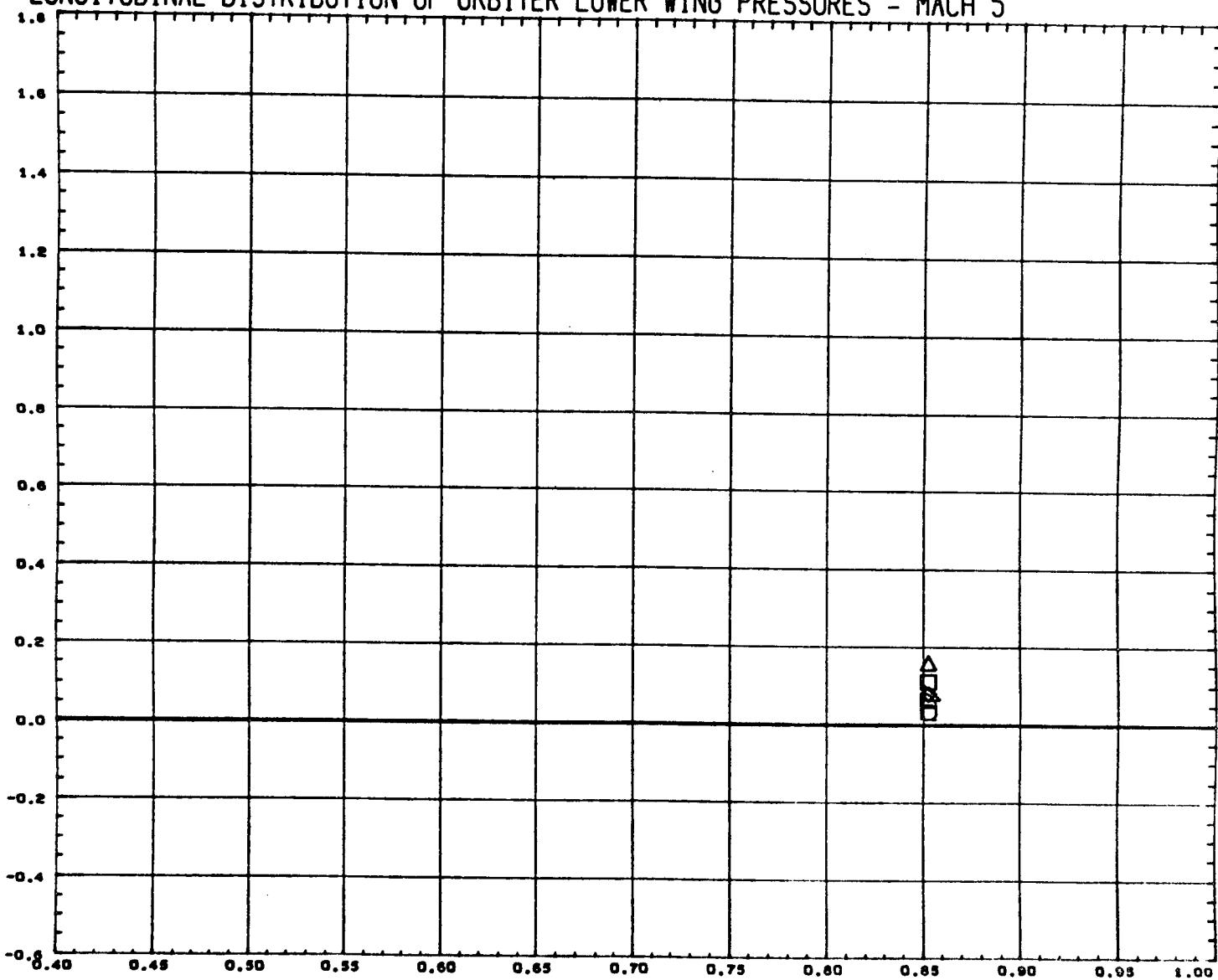
SYMBOL	DELTA X	Y/E	DELTA Z
-	0.390	0.360	0.220
-	0.143		
-	0.020		
-	0.103		
-	0.227		
-	0.390		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	5.020	MACH	4.940
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	- 0.390	0.736	0.229
△	- 0.143		
-	- 0.020		
◊	- 0.103		
□	- 0.227		
■	- 0.350		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	9.020	MACH	4.940
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

AEDC VA1163 MDAC ORBITER (LOWER WING)

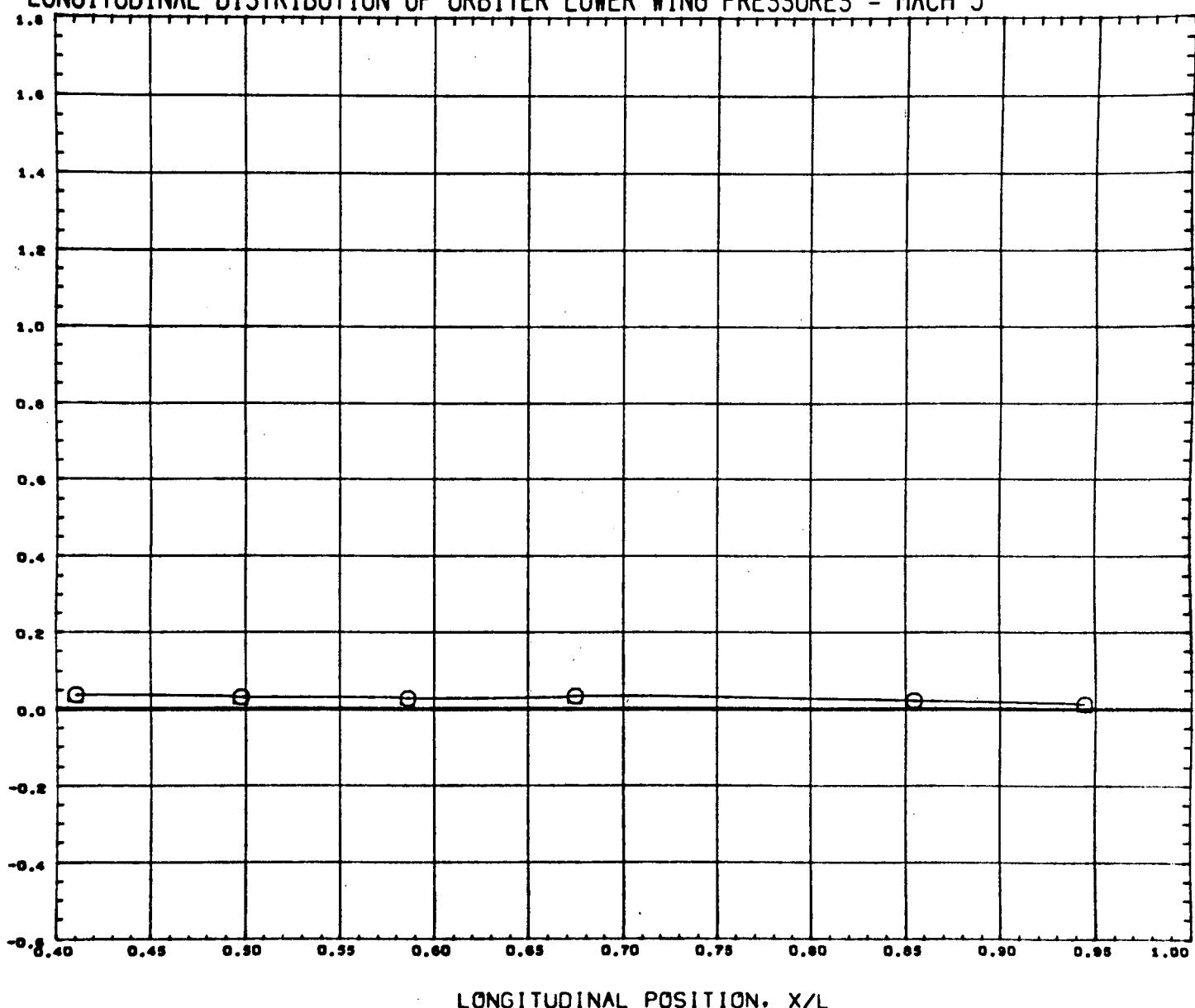
•HT8514•

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C.3

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



LONGITUDINAL POSITION. X/L

SYMBOL DELTAX Y/B DELTAZ
C 0.920 0.230 0.908

	ALPHAB	MACH	4.940
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

REFERENCE FILE

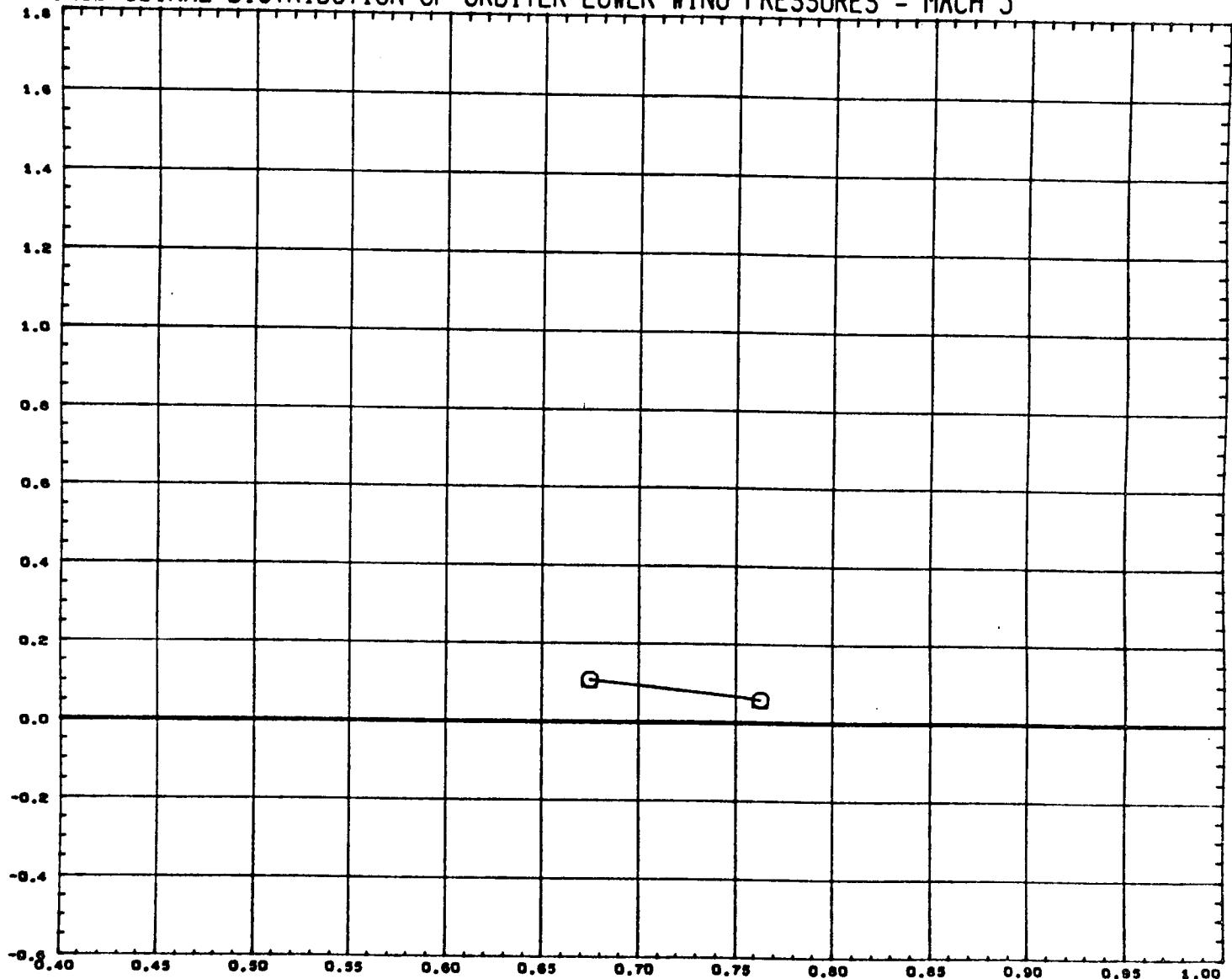
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8514•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL DELTAX Y/Z DELTAZ
C 0.920 0.399 0.908

	ALPHAB	MACH	ORBPOW
ALPHAI	5.020	4.940	0.000
BSTPOW	0.000	0.000	0.000

REFERENCE FILE

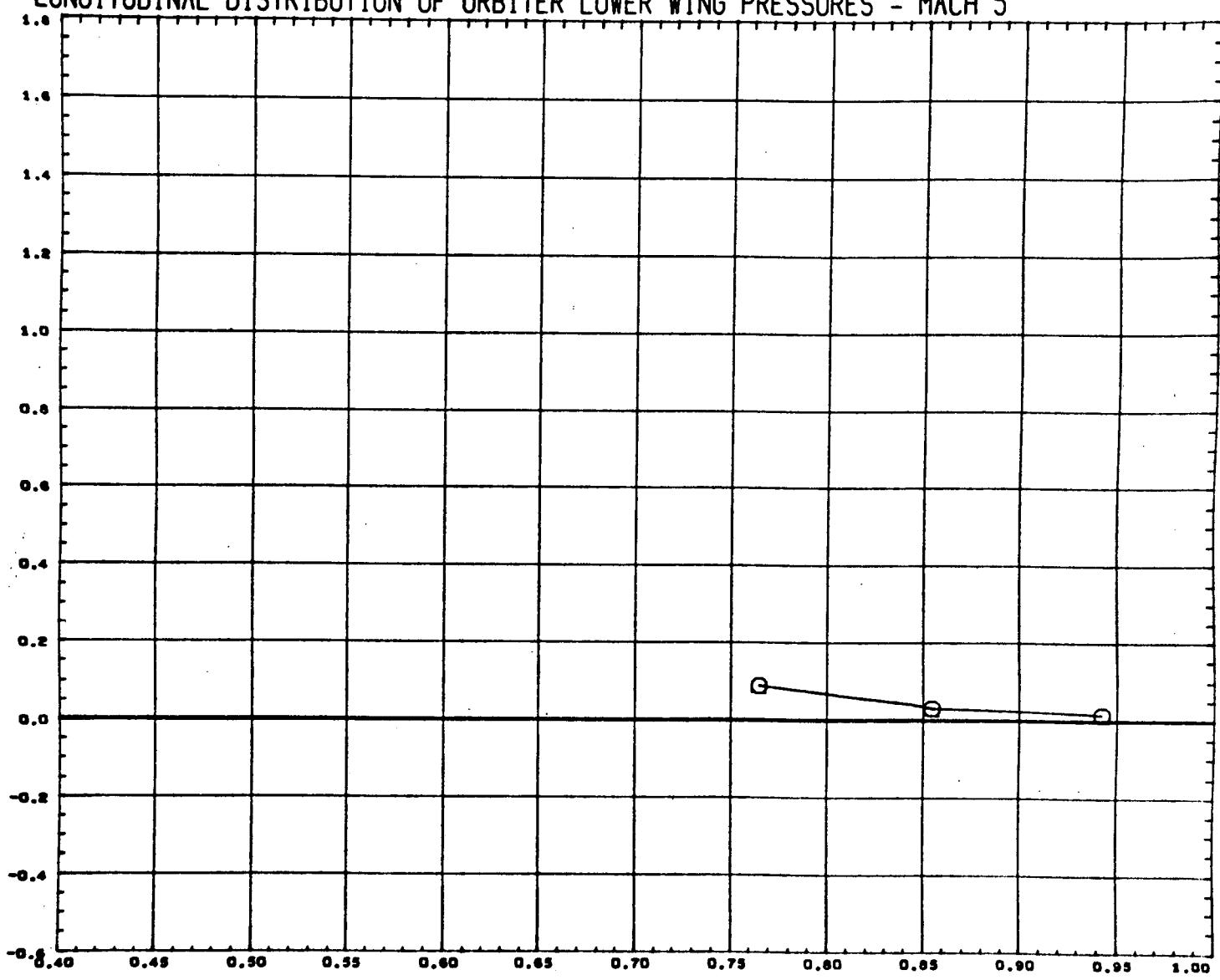
AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION. X/L

SYMBOL DELTAX T/B DELTAZ
C 0.920 0.960 0.908

PARAMETRIC VALUES			
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ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

REFERENCE FILE

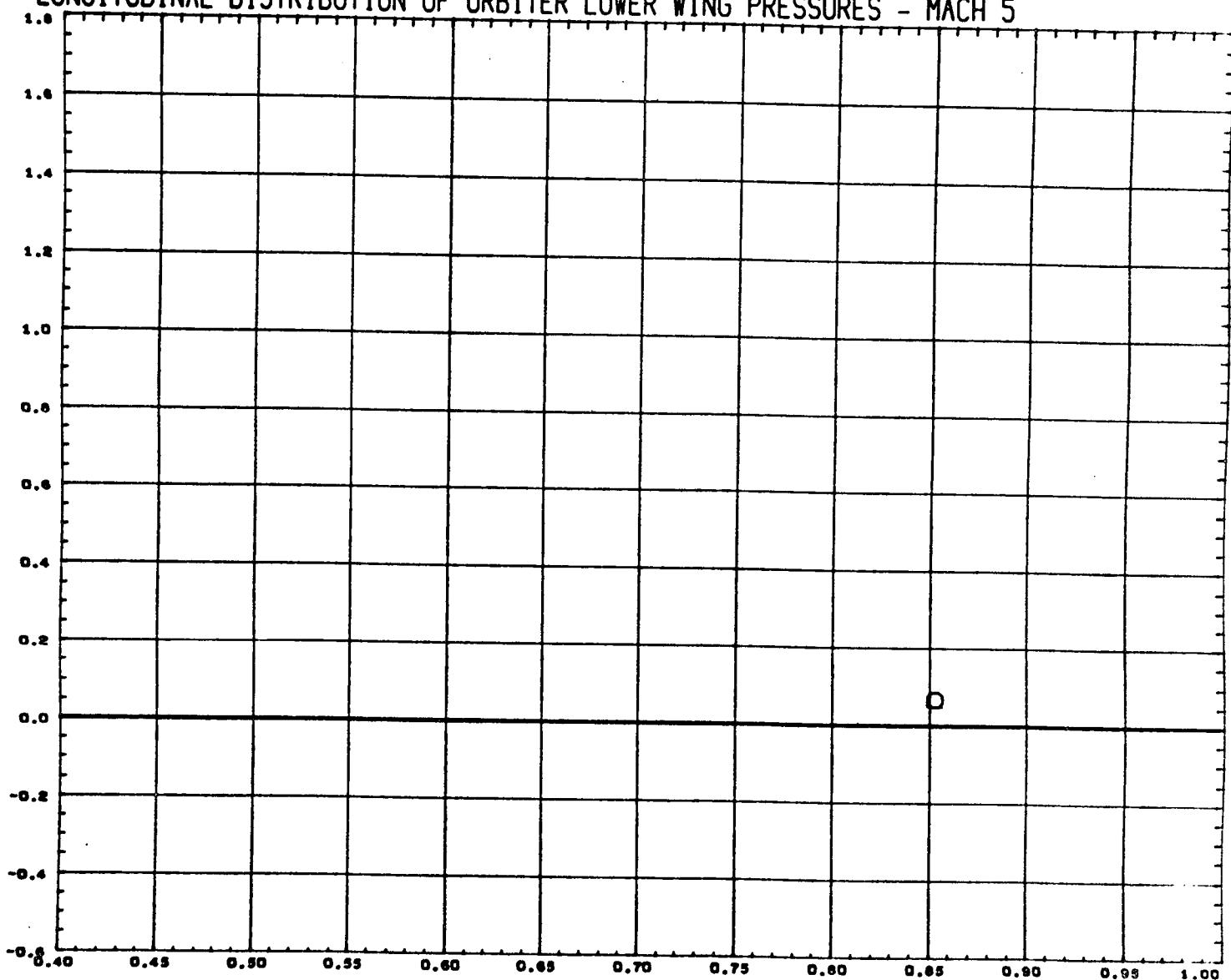
AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION, X/L

SYMBOL DELTAX Y/B DELTAZ
 C 0.520 0.739 0.905

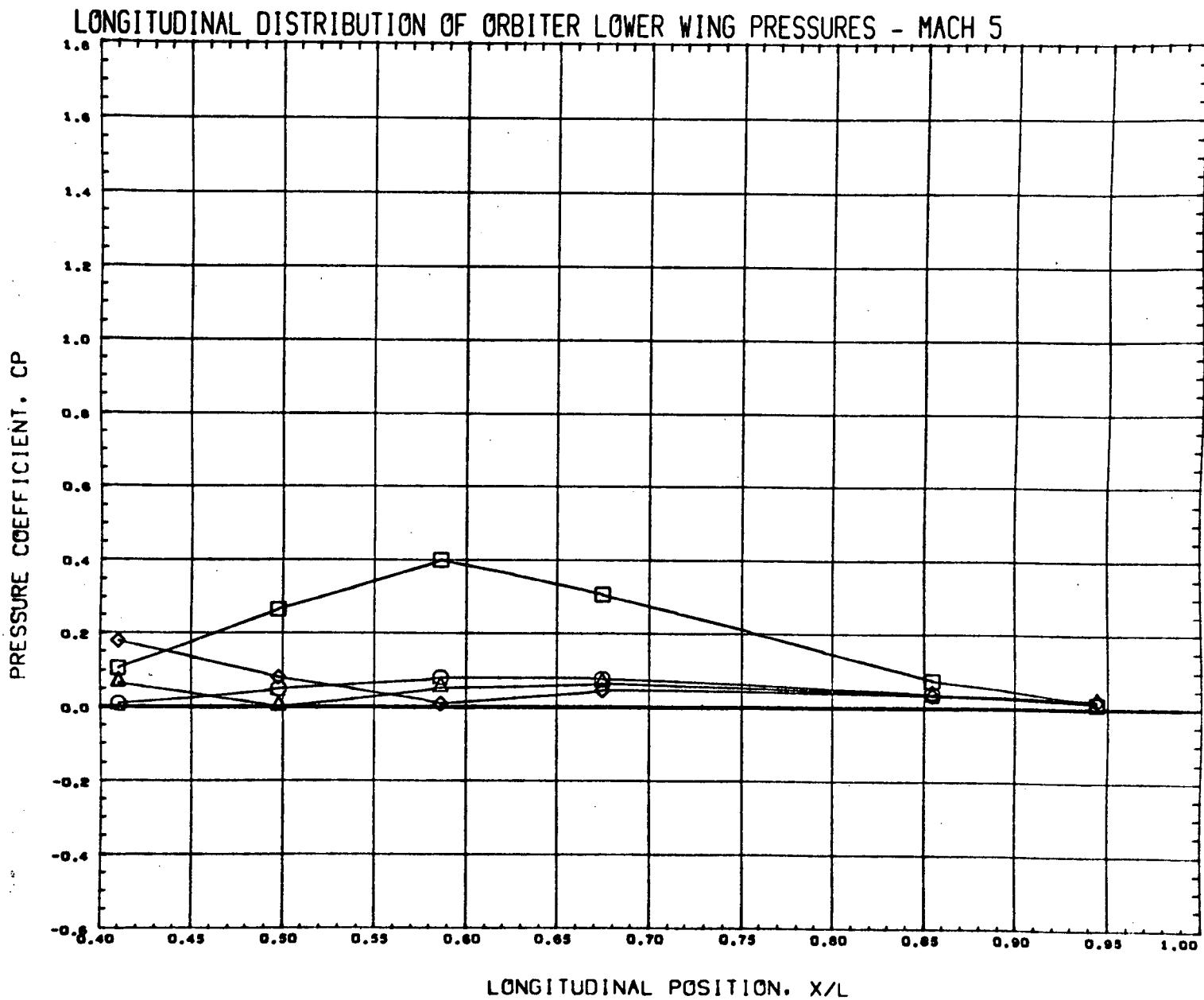
PARAMETRIC VALUES
 ALPHAB 5.020 MACH 4.940
 ALPHAI 0.000 ORBPOW 0.000
 BSTPOW 0.000

REFERENCE FILE

AEDC VAI163 MDAC ORBITER (LOWER WING)

•HT8514•

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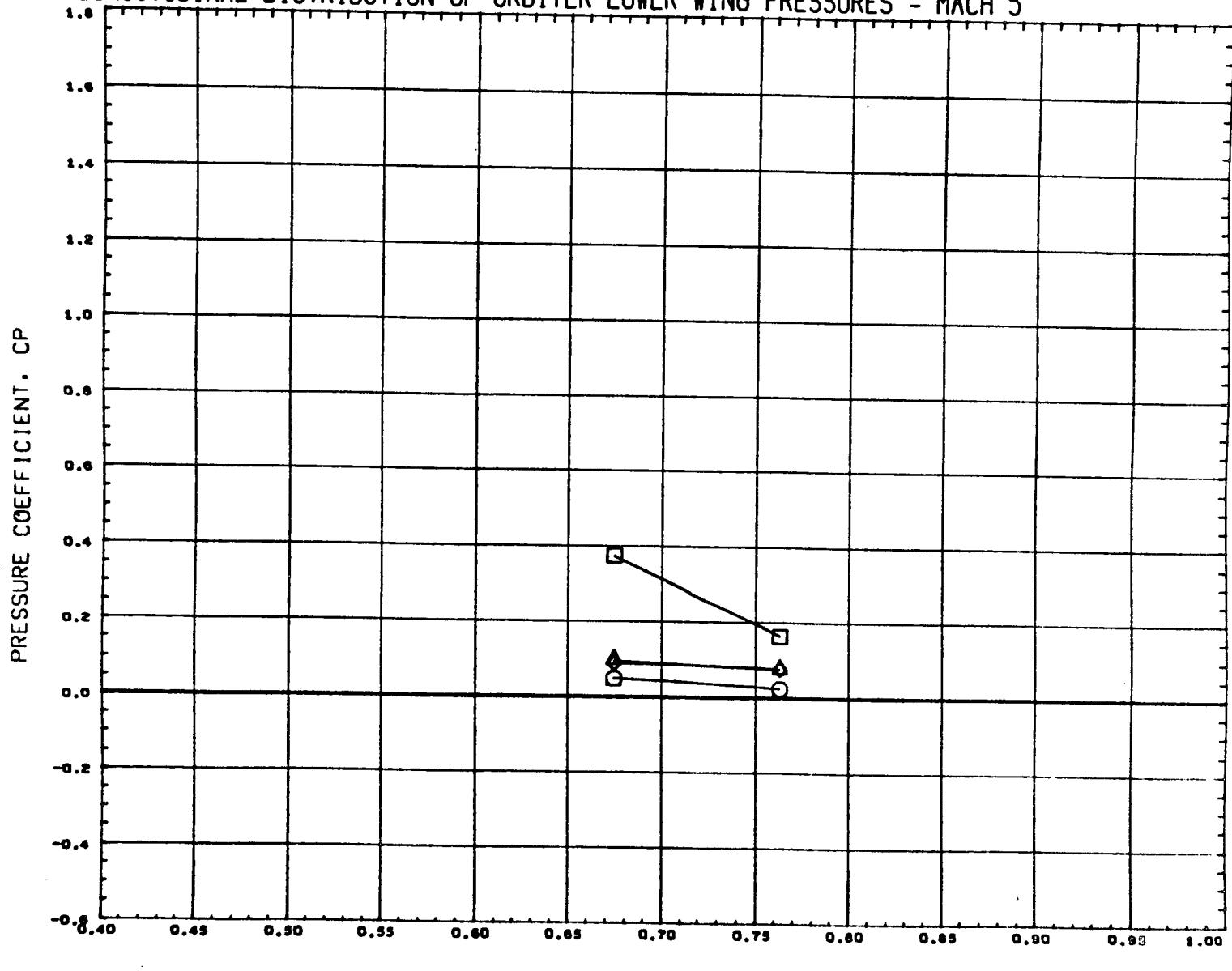
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8515•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
Δ	0.041	0.399	0.114
\diamond	0.103		
\diamond	0.165		
\square	0.350		

PARAMETRIC VALUES			
ALPHAB	10.063	MACH	4.940
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

REFERENCE FILE

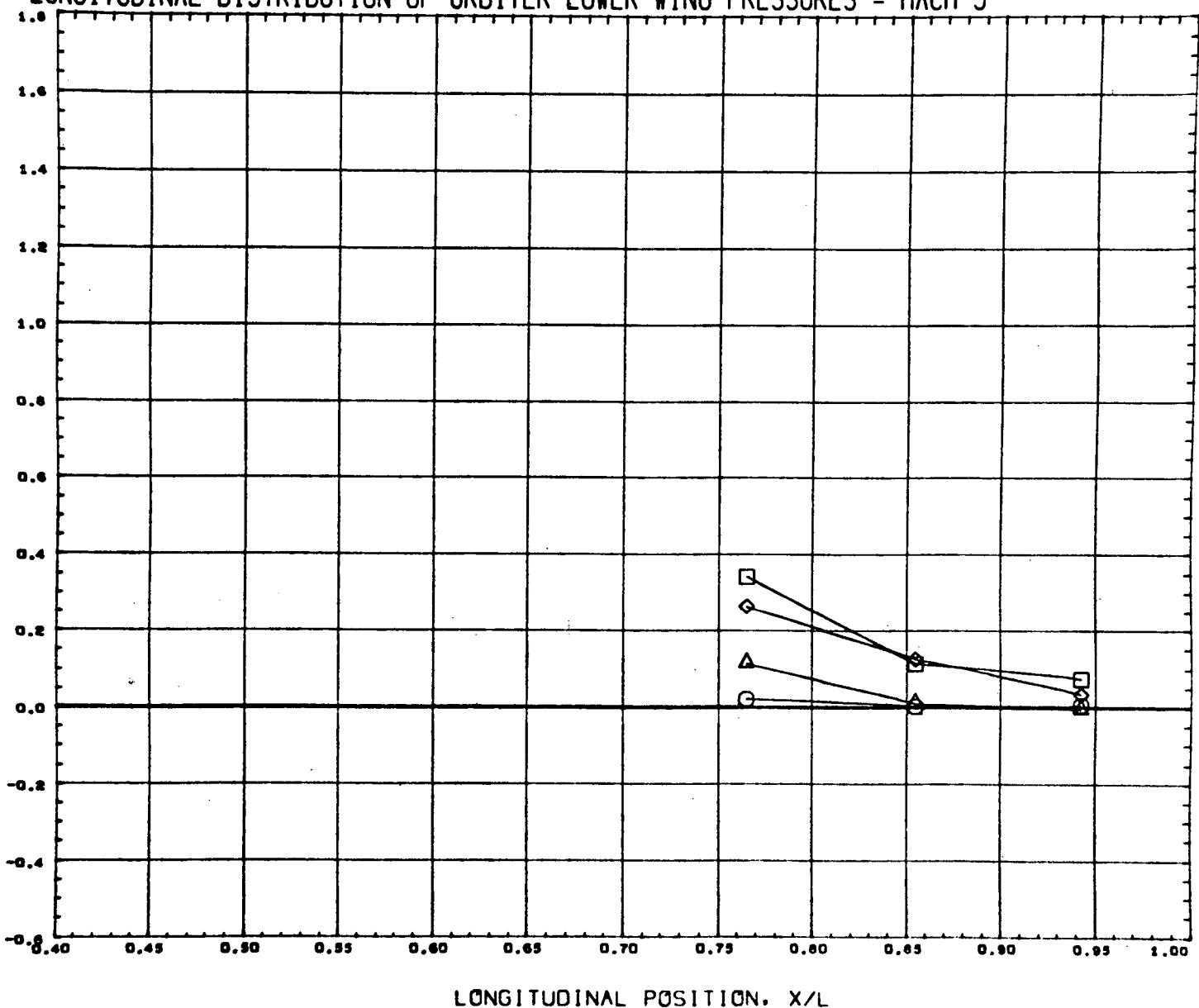
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8515•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



LONGITUDINAL POSITION. X/L

SYMBOL	DELTAX	T/8	DELTAZ
Δ	0.041	0.368	0.114
\diamond	0.103		
\square	0.169		
\circ	0.350		

PARAMETRIC VALUES			
ALPHAB	10.063	MACH	4.940
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

REFERENCE FILE

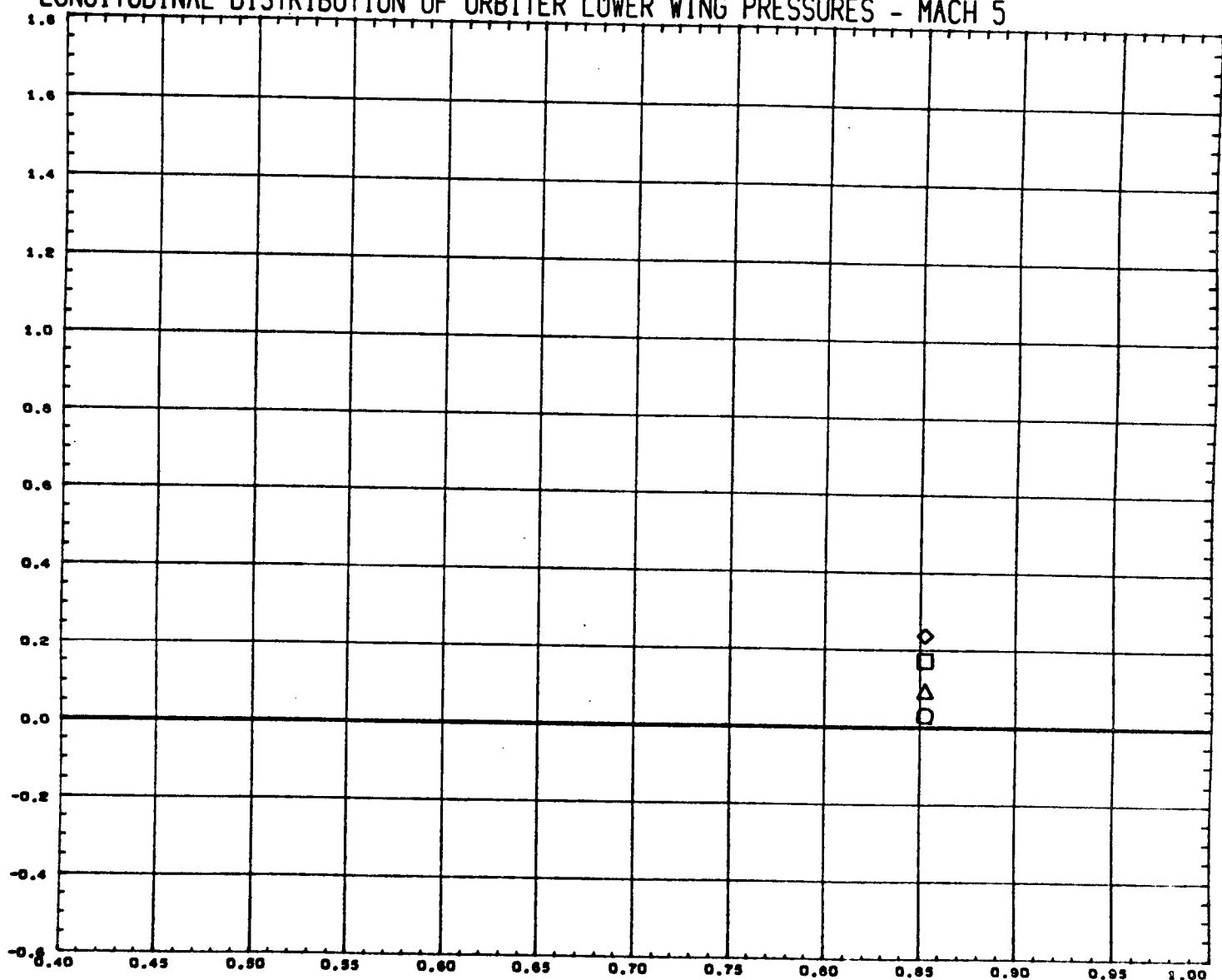
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8515•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	T/B	DELTA Z
○	0.041	0.739	0.114
□	0.103		
△	0.165		
◇	0.350		

PARAMETRIC VALUES			
ALPHAS	10.063	MACH	4.940
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

REFERENCE FILE

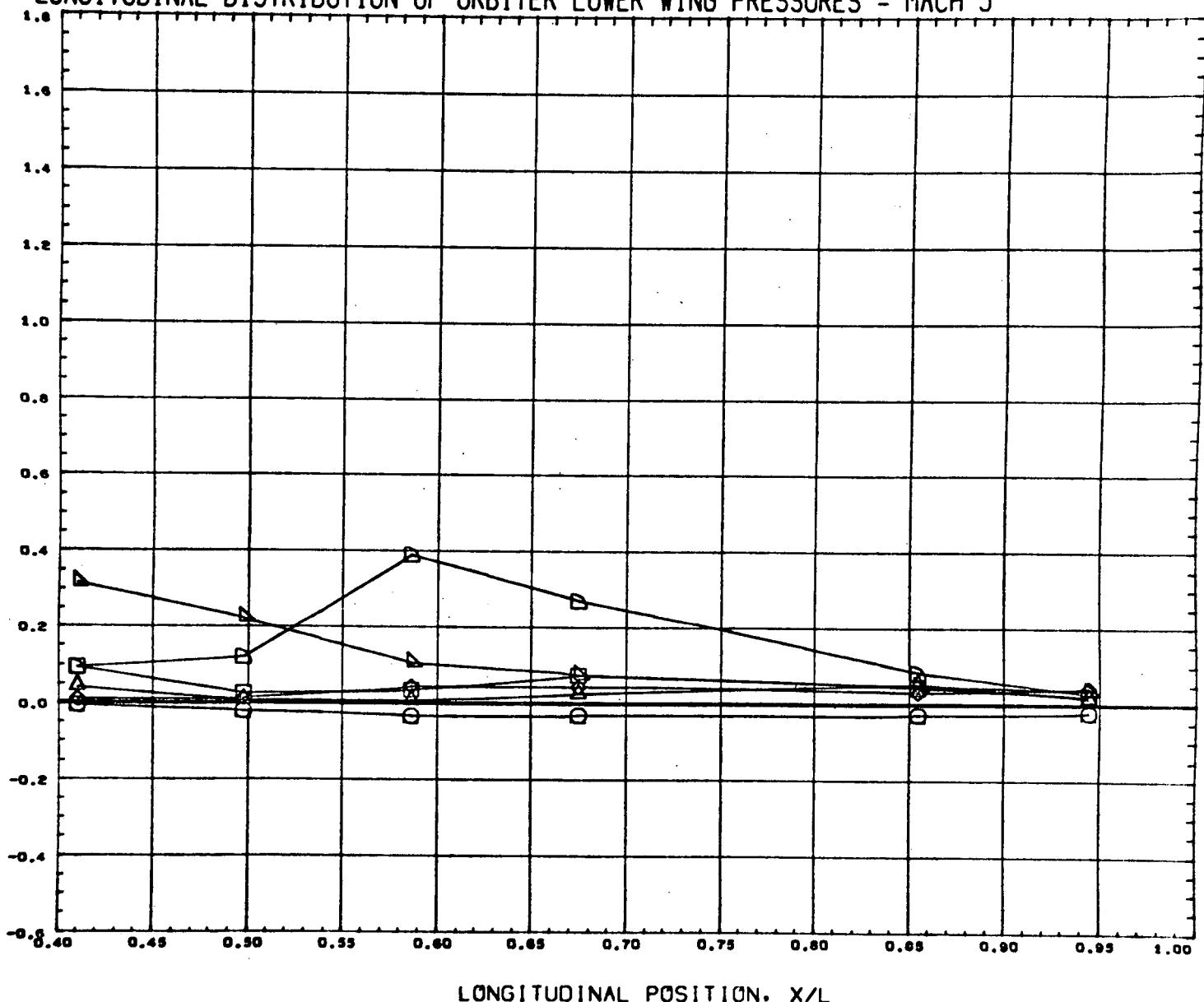
AEDC VAI163 MDAC ORBITER (LOWER WING)

•HT8515•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



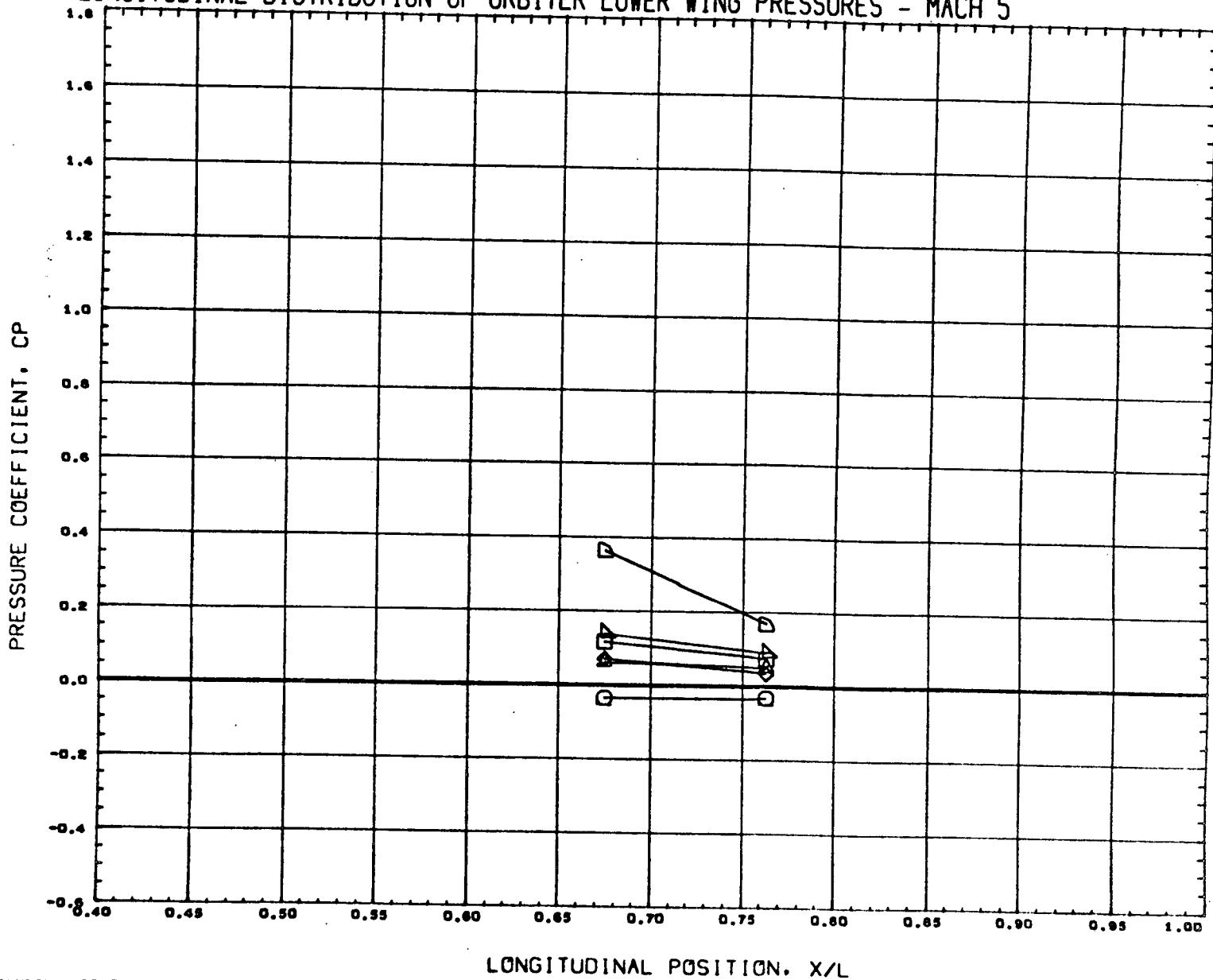
LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	T/B	DELTA Z
-	0.390	0.230	0.120
△	0.143		
◊	0.020		
□	0.103		
○	0.227		
◆	0.350		

REFERENCE FILE

PARAMETRIC VALUES		
ALPHAB	10.063	MACH 4.940
ALPHAI	0.000	ORBPOW 0.000
BSTPOW	0.000	

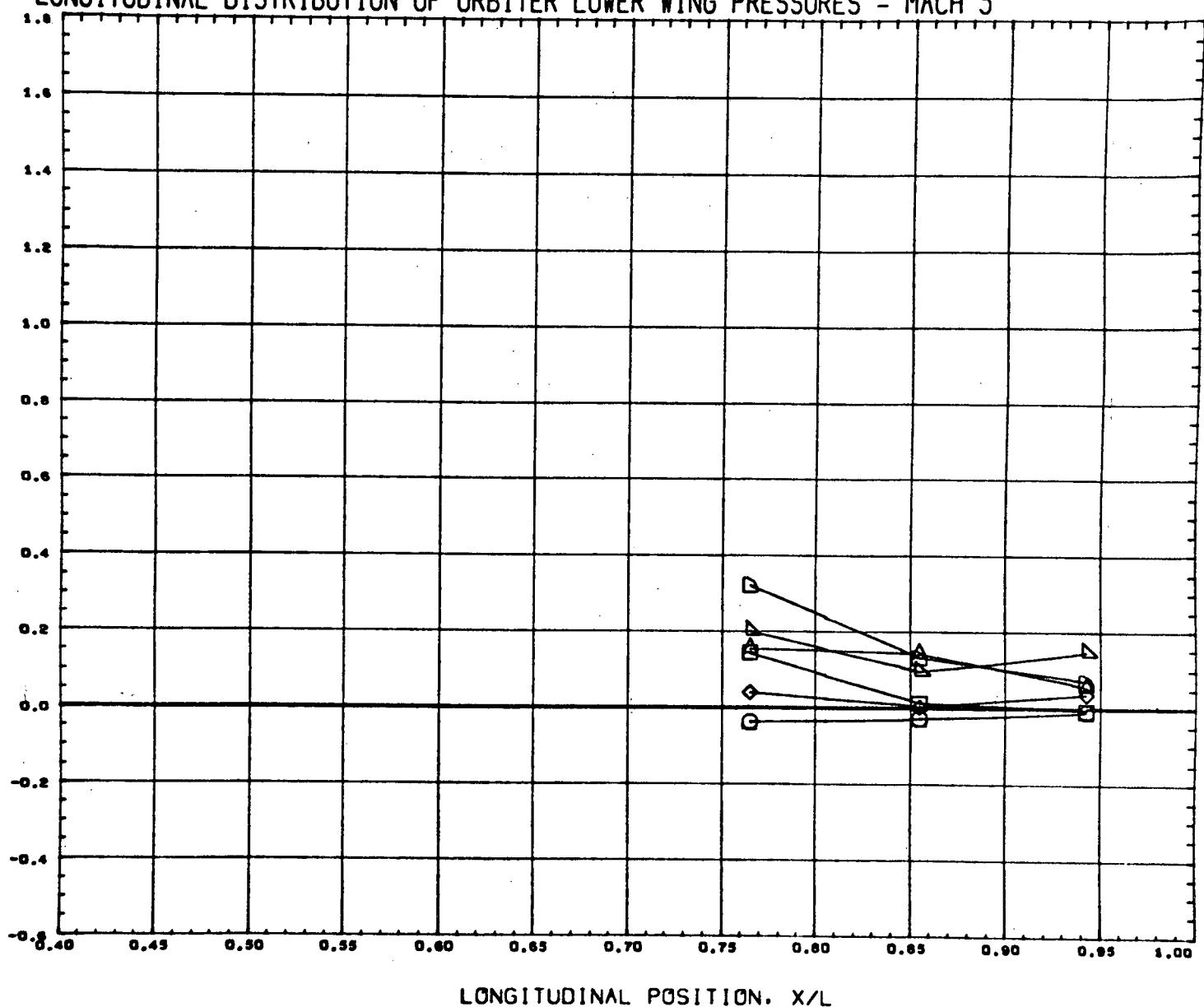
LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMOL DELTAX Y/B DELTAZ
 - 0.390 0.399 0.120
 - 0.143
 - 0.020
 0.103
 0.227
 0.350 REFERENCE FILE

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP

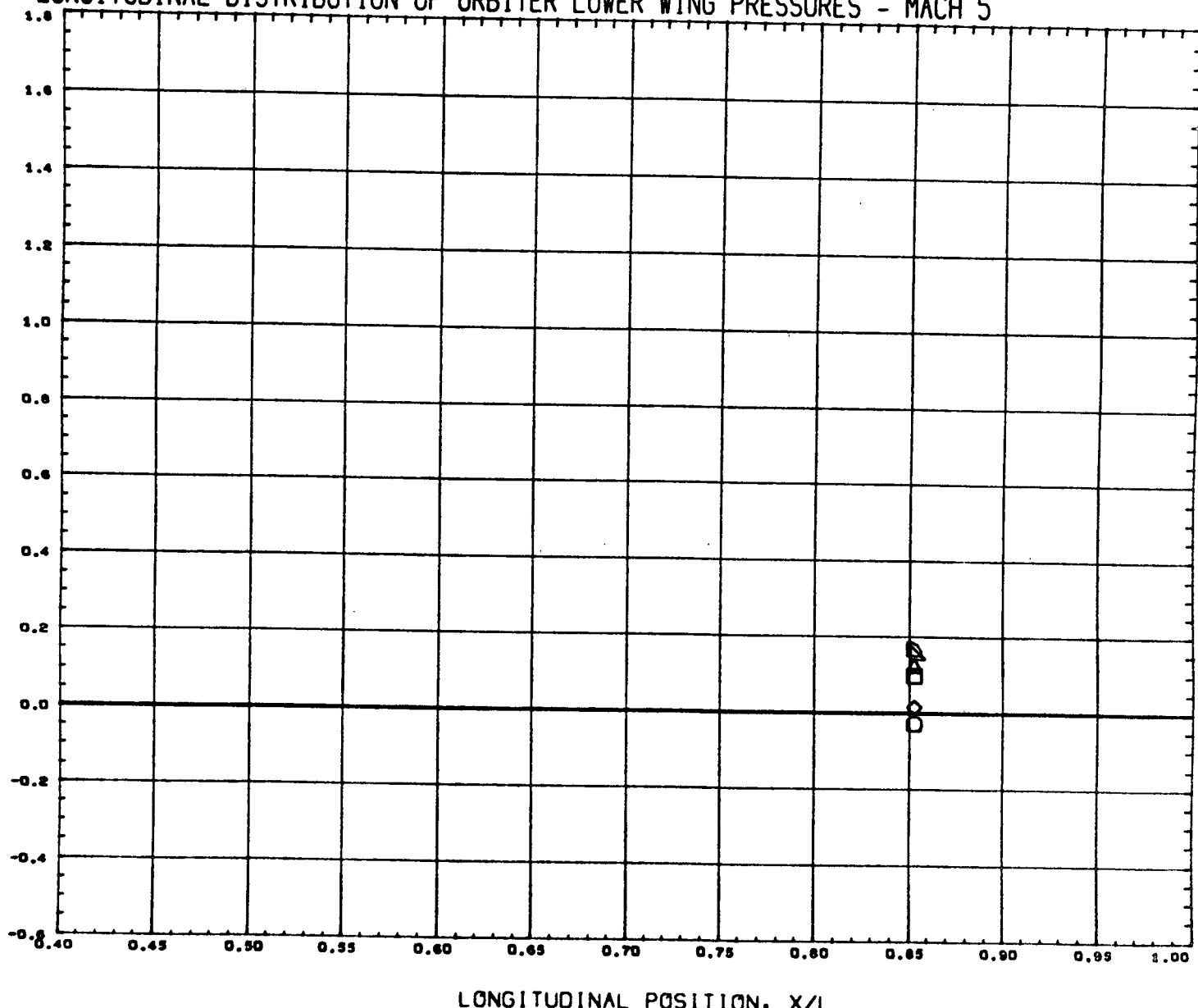


SYMBOL DELTAX Y/B DELTAZ
 - 0.390 0.568 0.120
 - 0.143
 - 0.020
 0.103
 0.227
 0.350 REFERENCE FILE

PARAMETRIC VALUES
 ALPHAB 10.063 MACH 4.940
 ALPHAI 0.000 ORBPOW 0.000
 BSTPOW 0.000

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION, X/L

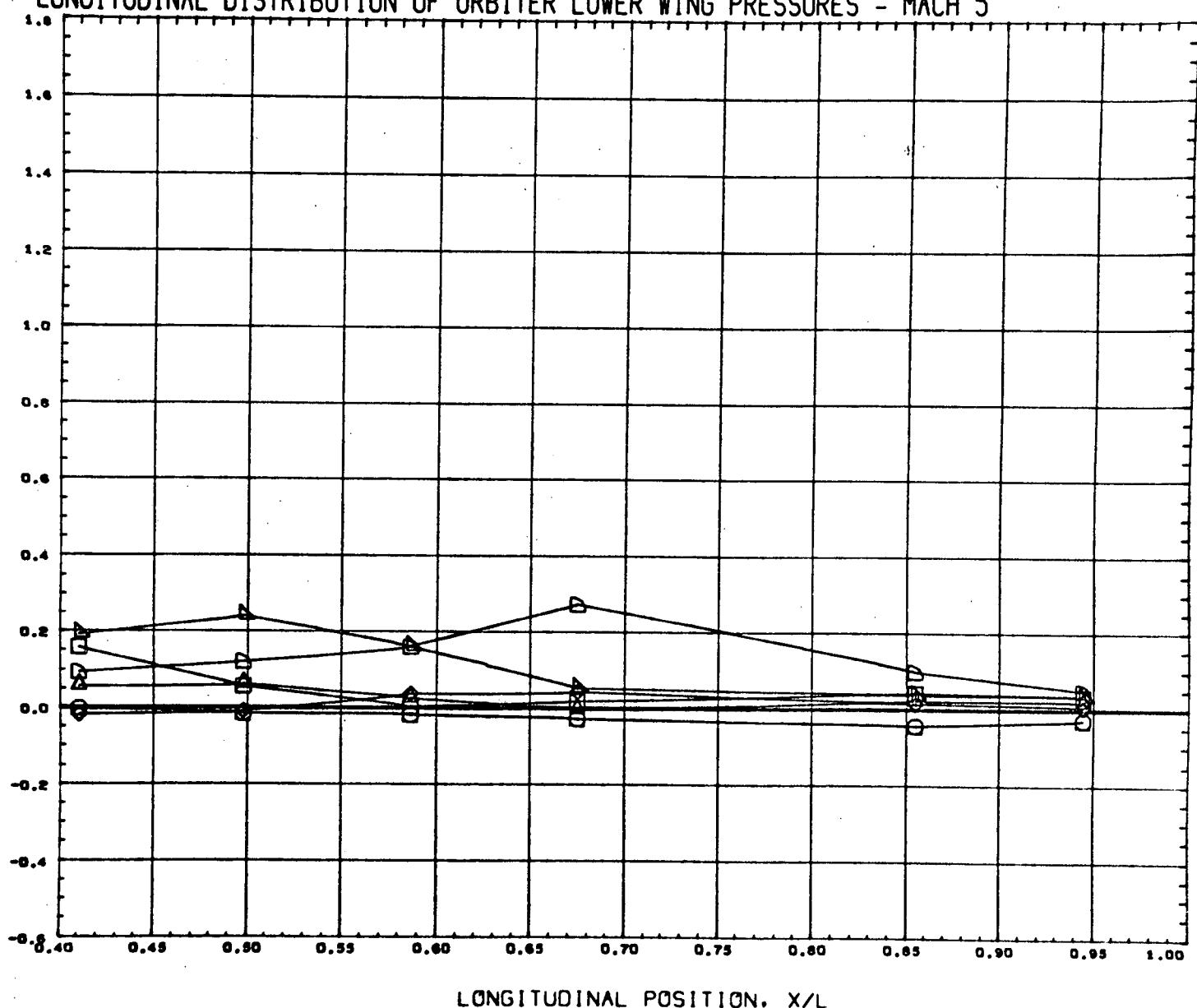
SYMBOL	DELTA X	T/B	DELTA Z
-	0.390	0.738	0.120
-	0.143		
-	0.020		
-	0.103		
-	0.227		
-	0.350		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	10.063	MACH	4.940
ALPHAT	0.000	ORBPOW	0.000
BSTPOW	0.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION, X/L

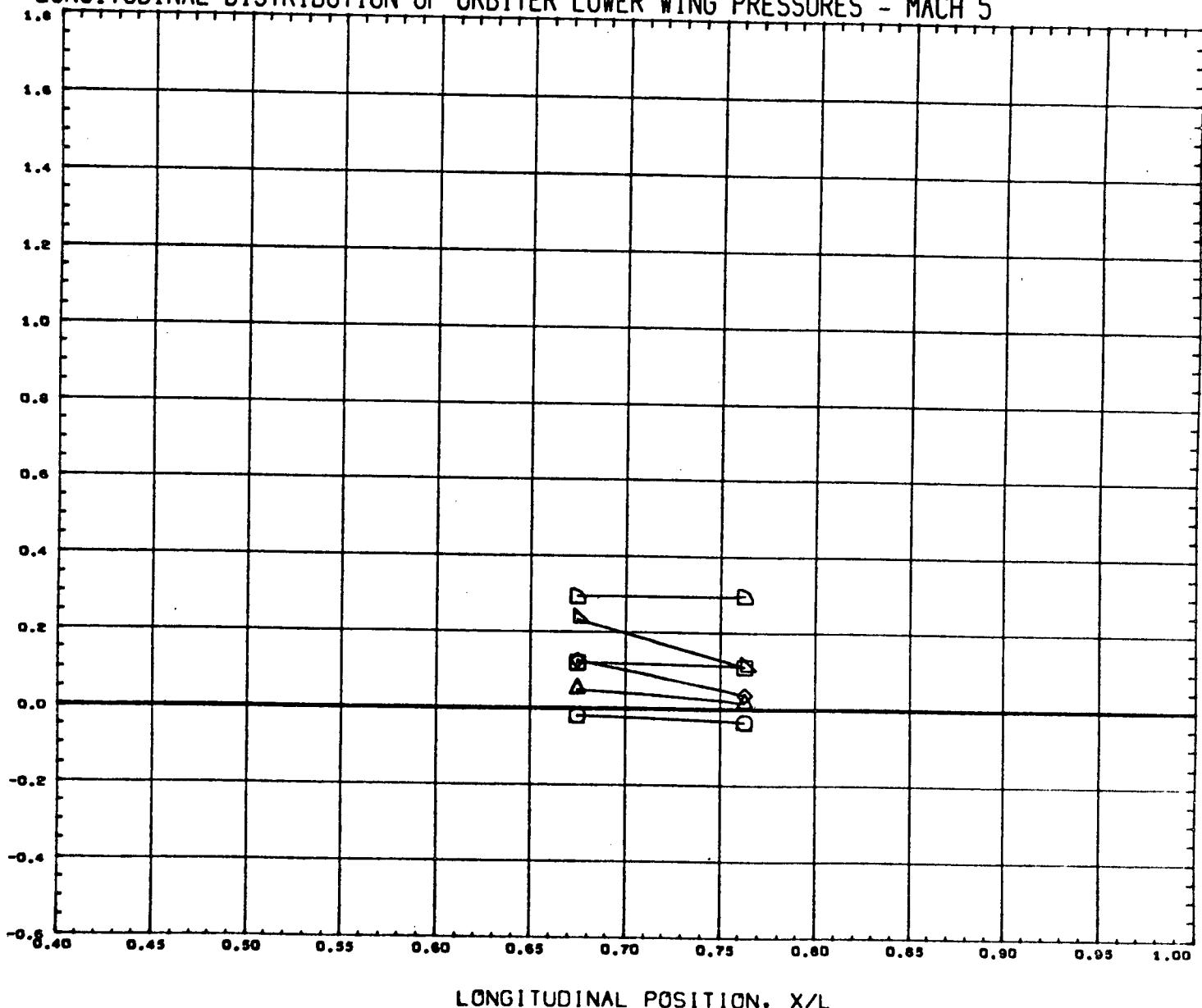
SYMBOL	DELTA X	Y/B	DELTA Z
-	0.390	0.230	0.191
-	0.143		
-	0.020		
-	0.103		
-	0.227		
-	0.390		

REFERENCE FILE

PARAMETRIC VALUES		
ALPHAB	10.063	MACH
ALPHAI	0.000	ORBPOW
BSTPOW	0.000	

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION. X/L

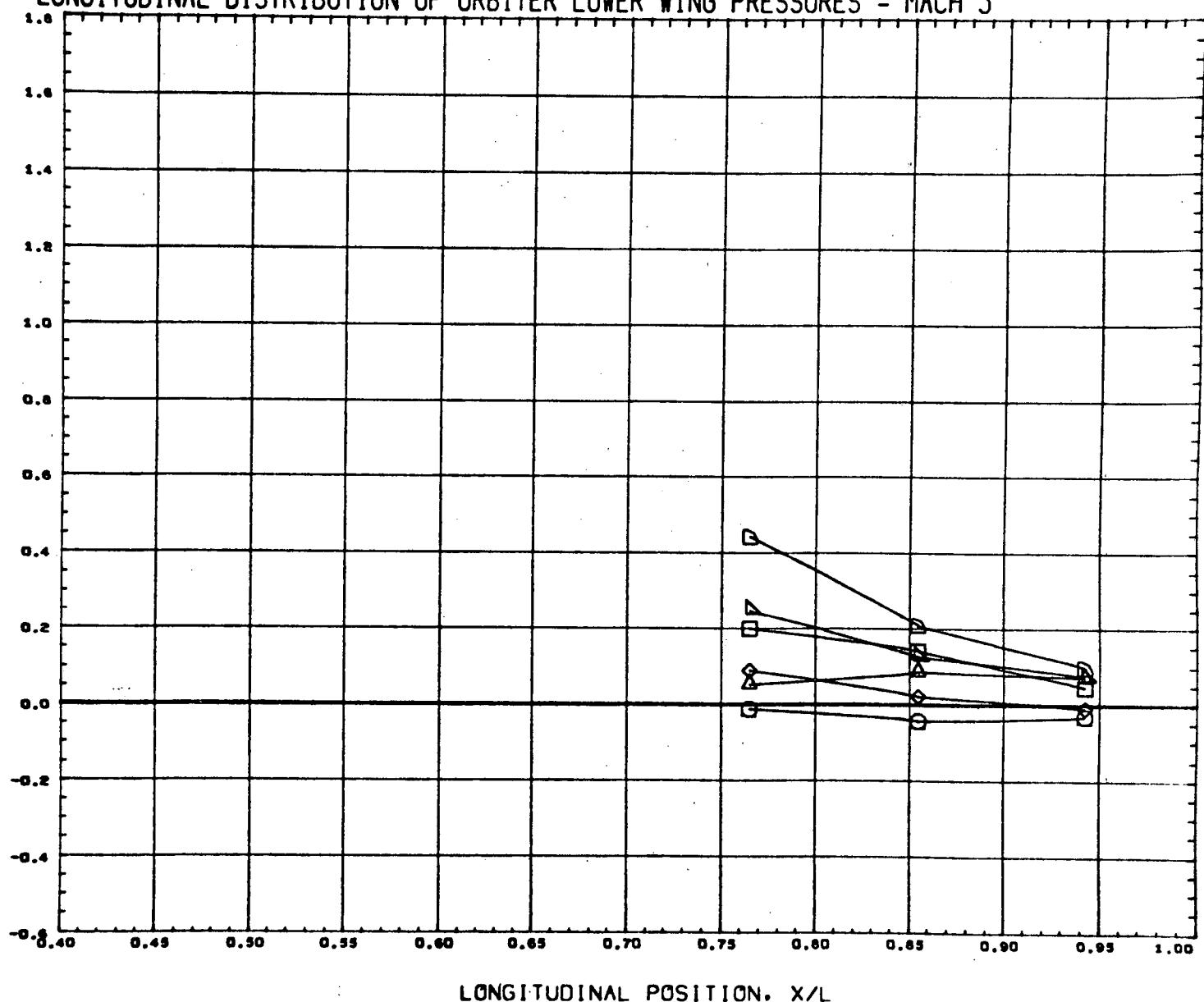
SYMBOL	DELTA X	T/B	DELTA Z
-	0.390	0.399	0.151
-	0.143		
-	0.020		
-	0.103		
-	0.227		
-	0.350		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	10.063	MACH	4.940
ALPHAI	0.000	ORBPOW	0.000
BSTPOW			

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



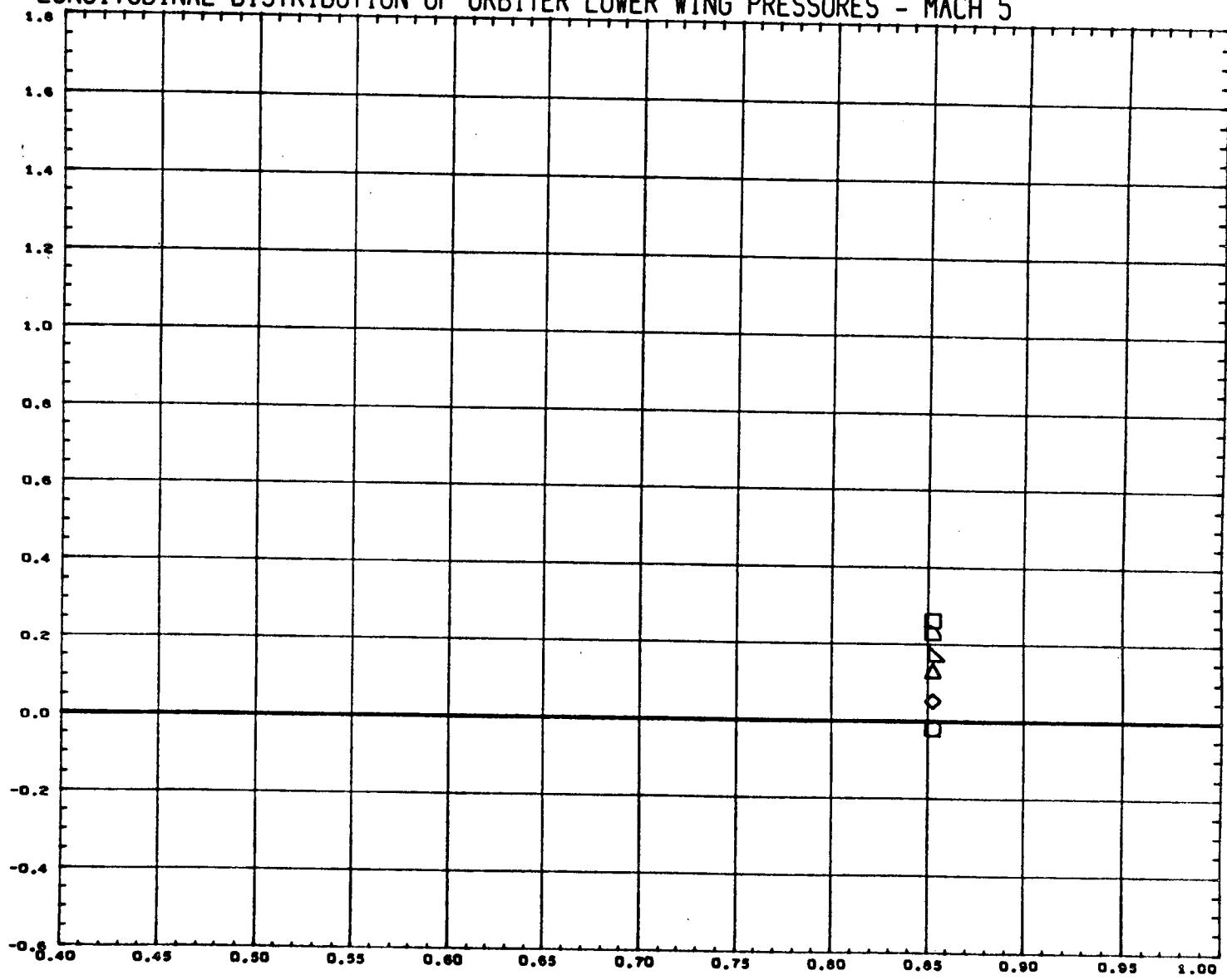
LONGITUDINAL POSITION, X/L

SYMBOL DELTAX Y/B DELTAZ
 - 0.390 0.568 0.151
 - 0.143
 - 0.020
 0.103
 0.227
 0.350 REFERENCE FILE

PARAMETRIC VALUES
 ALPHAB 10.063 MACH 4.940
 ALPHAI 0.000 ORBPOW 0.000
 BSTPOW 0.000

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



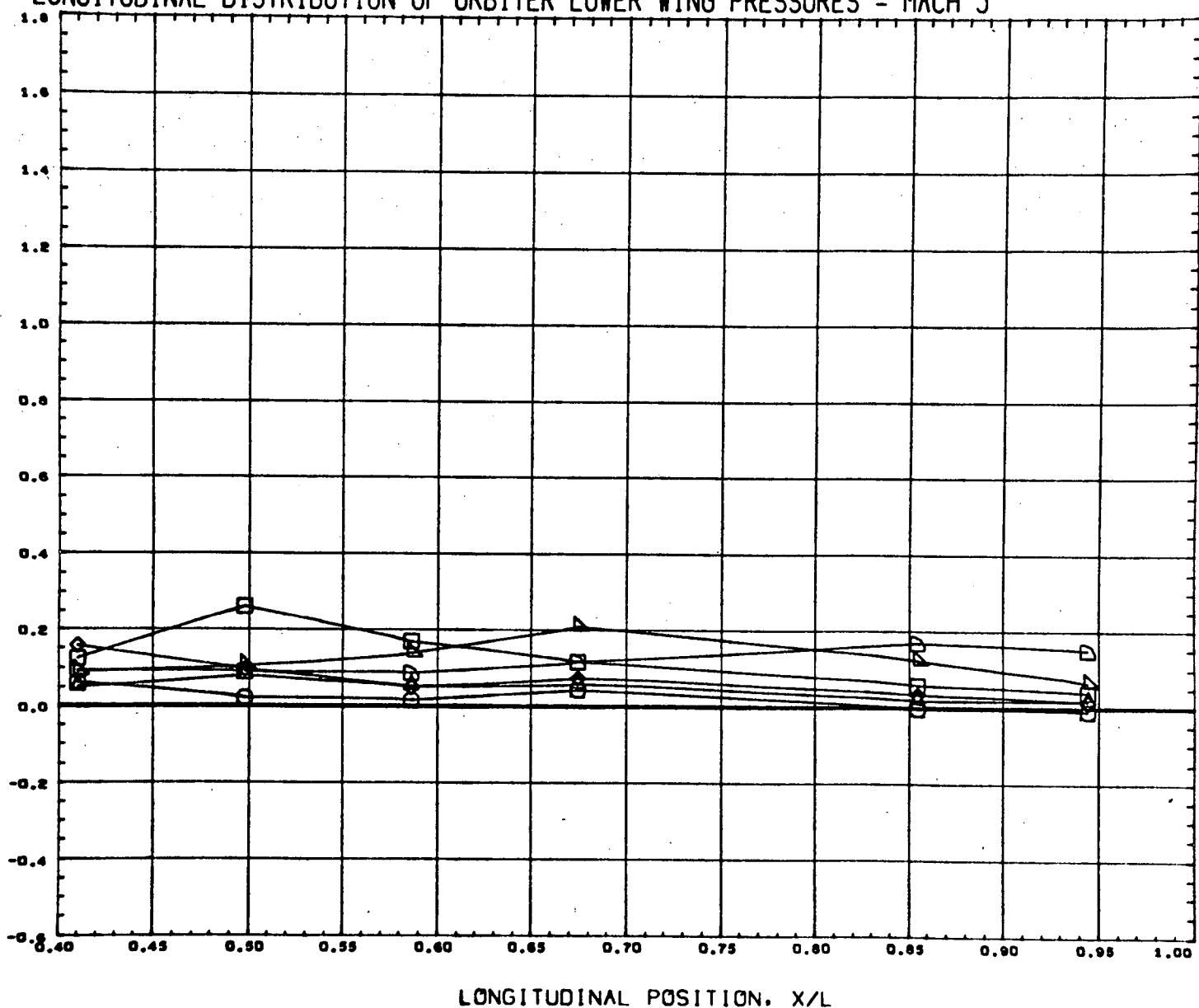
LONGITUDINAL POSITION. X/L

SYMBOL	DELTA X	Y/B	DELTA Z
-	0.390	0.736	0.191
-	0.143		
-	0.020		
	0.103		
	0.227		
	0.350	REFERENCE FILE	

PARAMETRIC VALUES		
ALPHAB	10.063	MACH 4.940
ALPHAI	0.000	ORBPOW 0.000
BSTPOW	0.000	

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



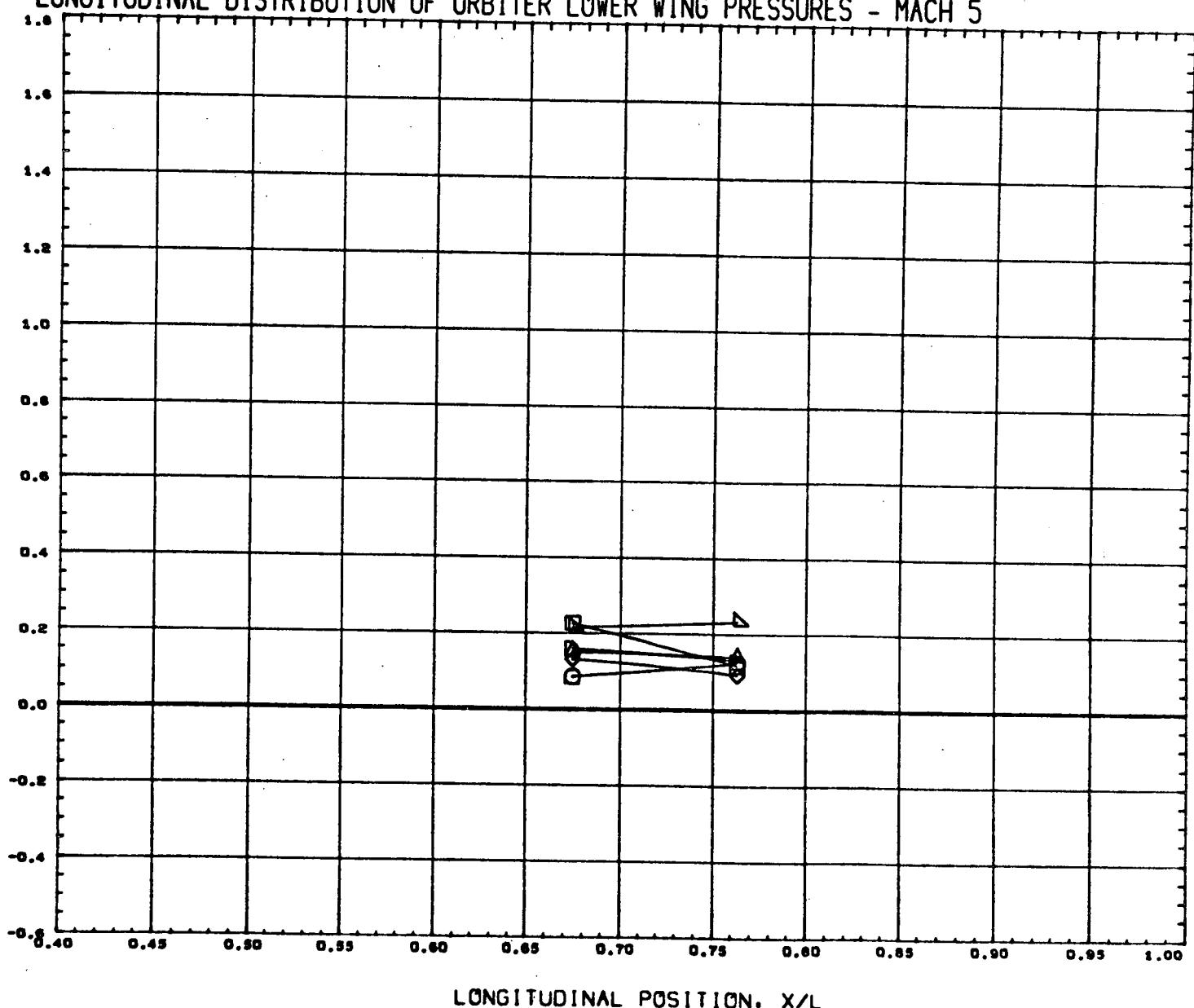
SYMBOL DELTAX Y/B DELTAZ
 - 0.390 0.230 0.226
 - 0.143
 - 0.020
 0.103
 0.287
 0.390 REFERENCE FILE

LONGITUDINAL POSITION, X/L

PARAMETRIC VALUES			
ALPHAB	10.063	MACH	4.940
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION. X/L

SYMBOL DELTAX Y/B DELTAZ
- 0.390 0.399 0.226

- 0.143

- 0.020

0.103

0.227

0.390

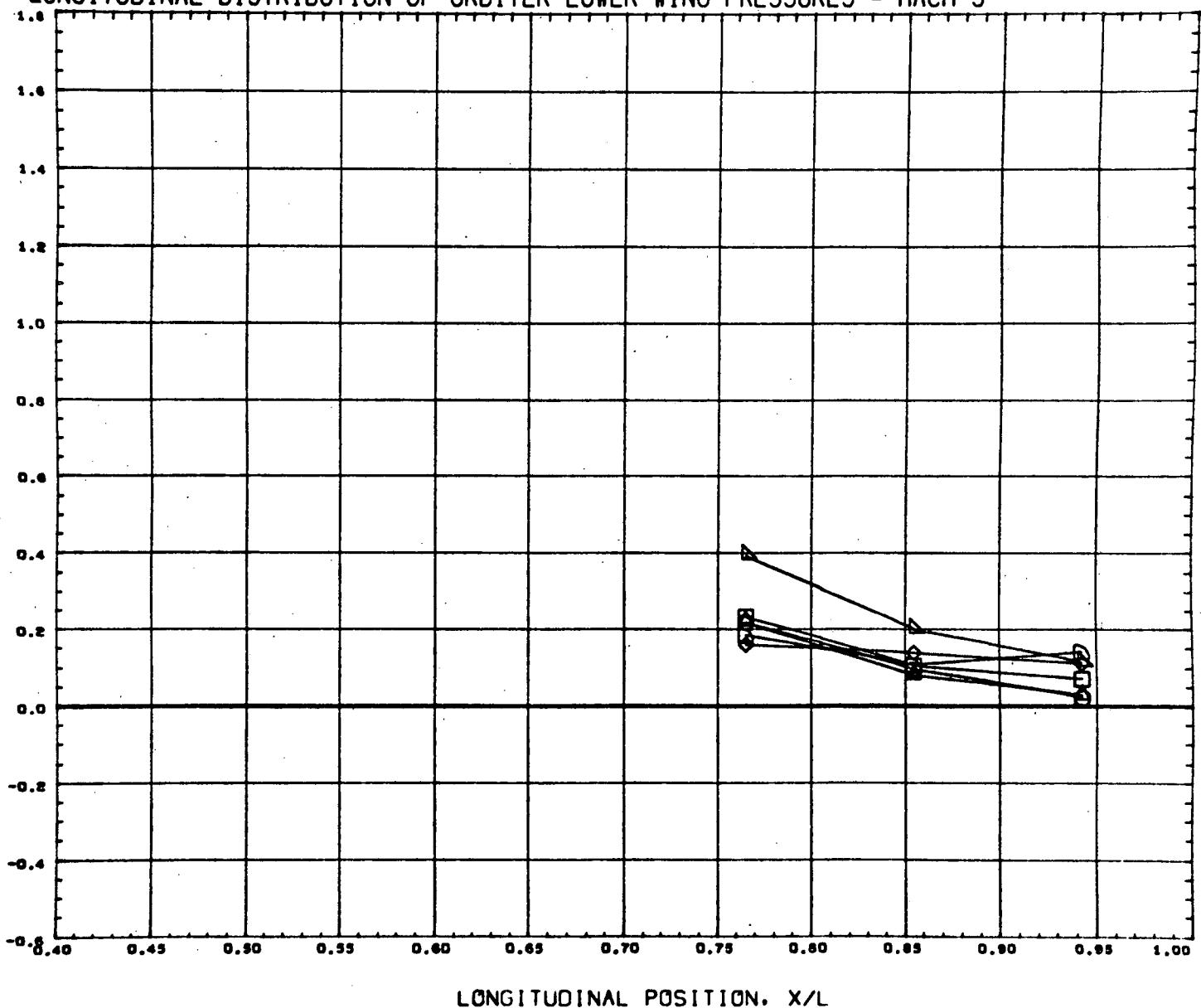
REFERENCE FILE

PARAMETRIC VALUES

ALPHAB	10.063	MACH	4.940
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



LONGITUDINAL POSITION. X/L

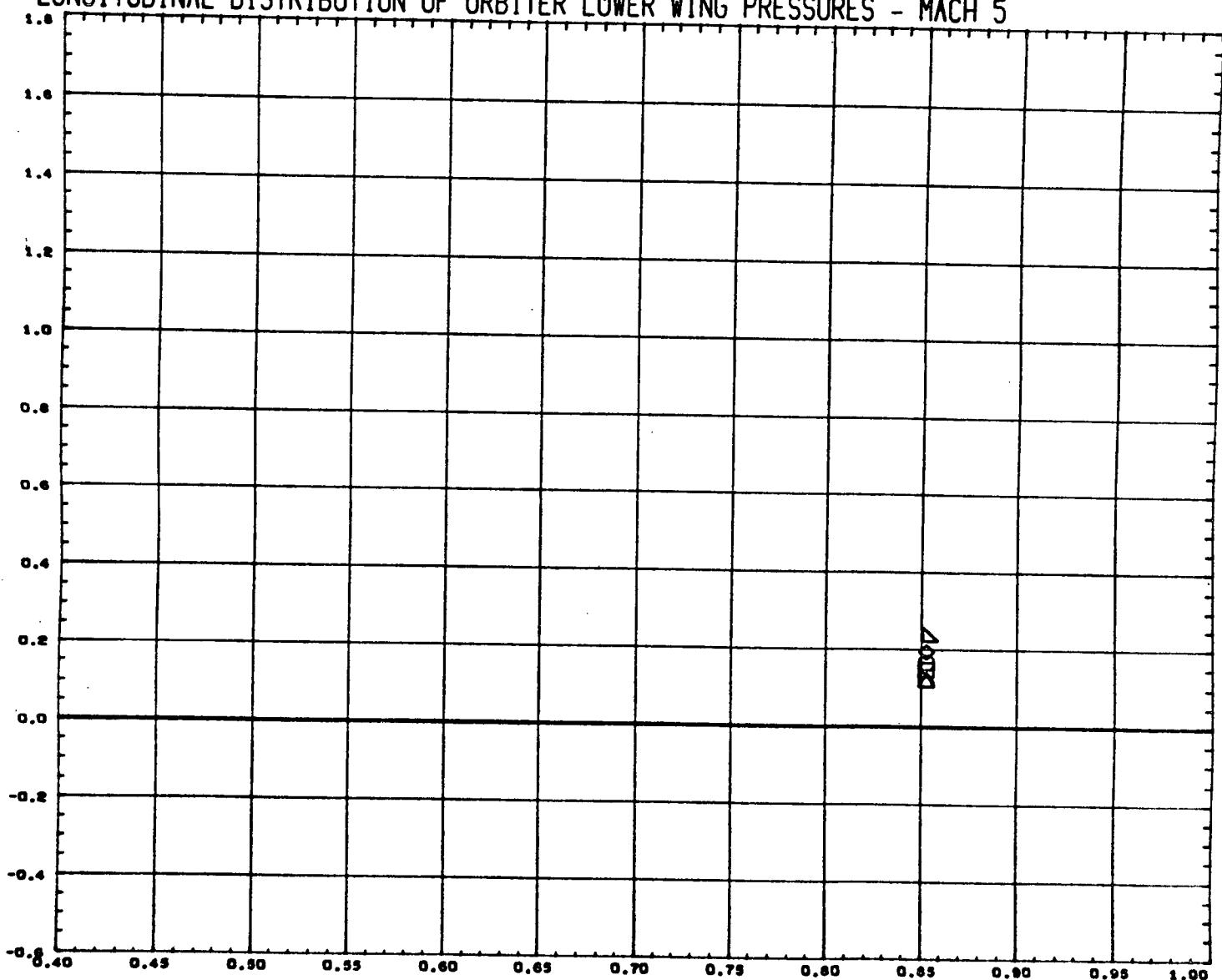
SYMBOL	DELTA X	T/B	DELTA Z
-	0.390	0.566	0.226
-	0.143		
-	0.020		
○	0.103		
△	0.227		
□	0.390		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	10.063	MACH	4.940
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



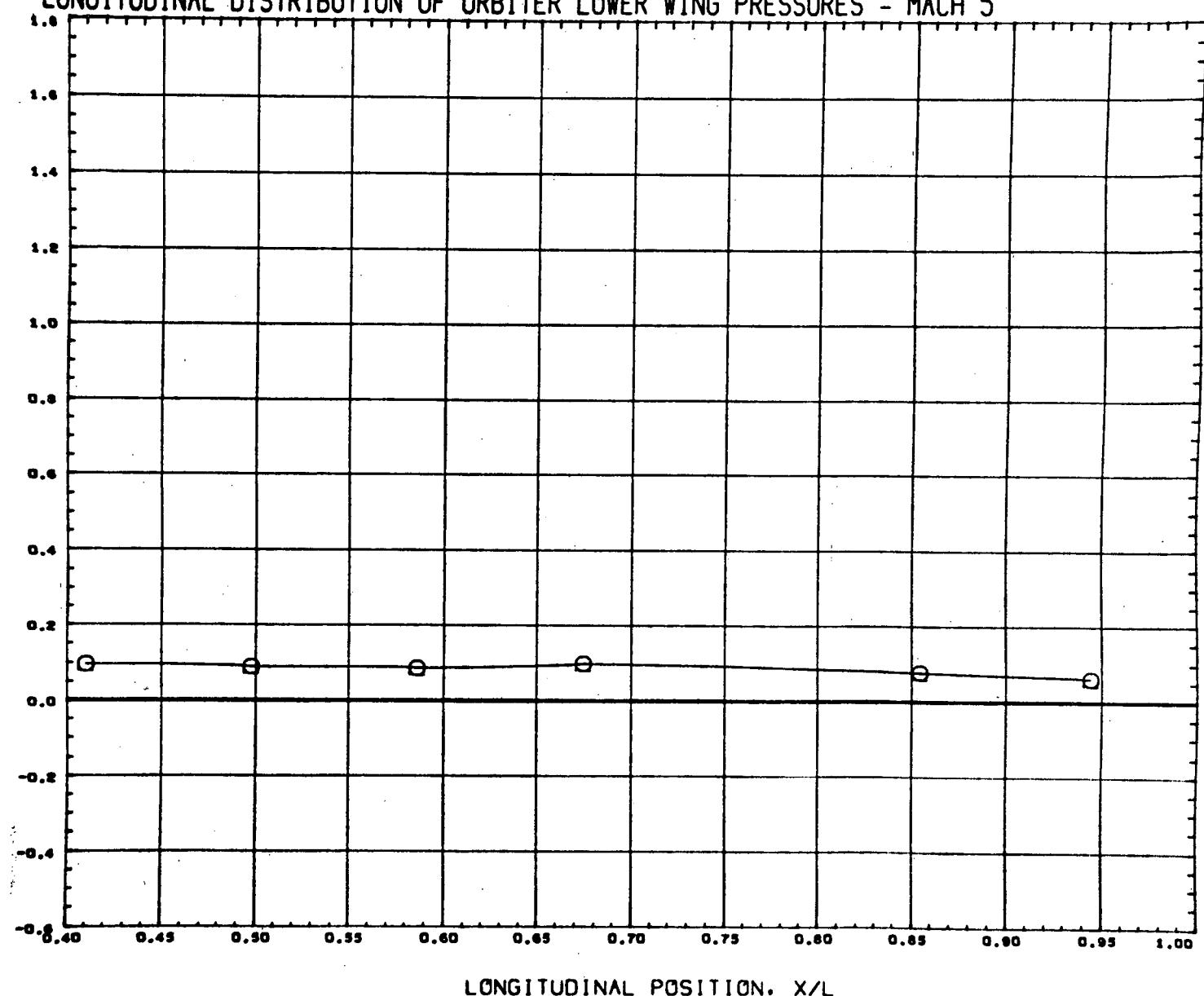
SYMBOL DELTAX Y/B DELTAZ
 - 0.390 0.736 0.228
 - 0.143
 - 0.020
 0.103
 0.227
 0.390 REFERENCE FILE

LONGITUDINAL POSITION. X/L

PARAMETRIC VALUES		
ALPHAB	10.063	MACH 4.940
ALPHAT	0.000	ORBFOW 0.000
BSTPWF	0.000	

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL DELTAX Y/B DELTAZ
○ 0.520 0.230 0.908

PARAMETRIC VALUES			
ALPHAB	10.063	MACH	4.940
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

REFERENCE FILE

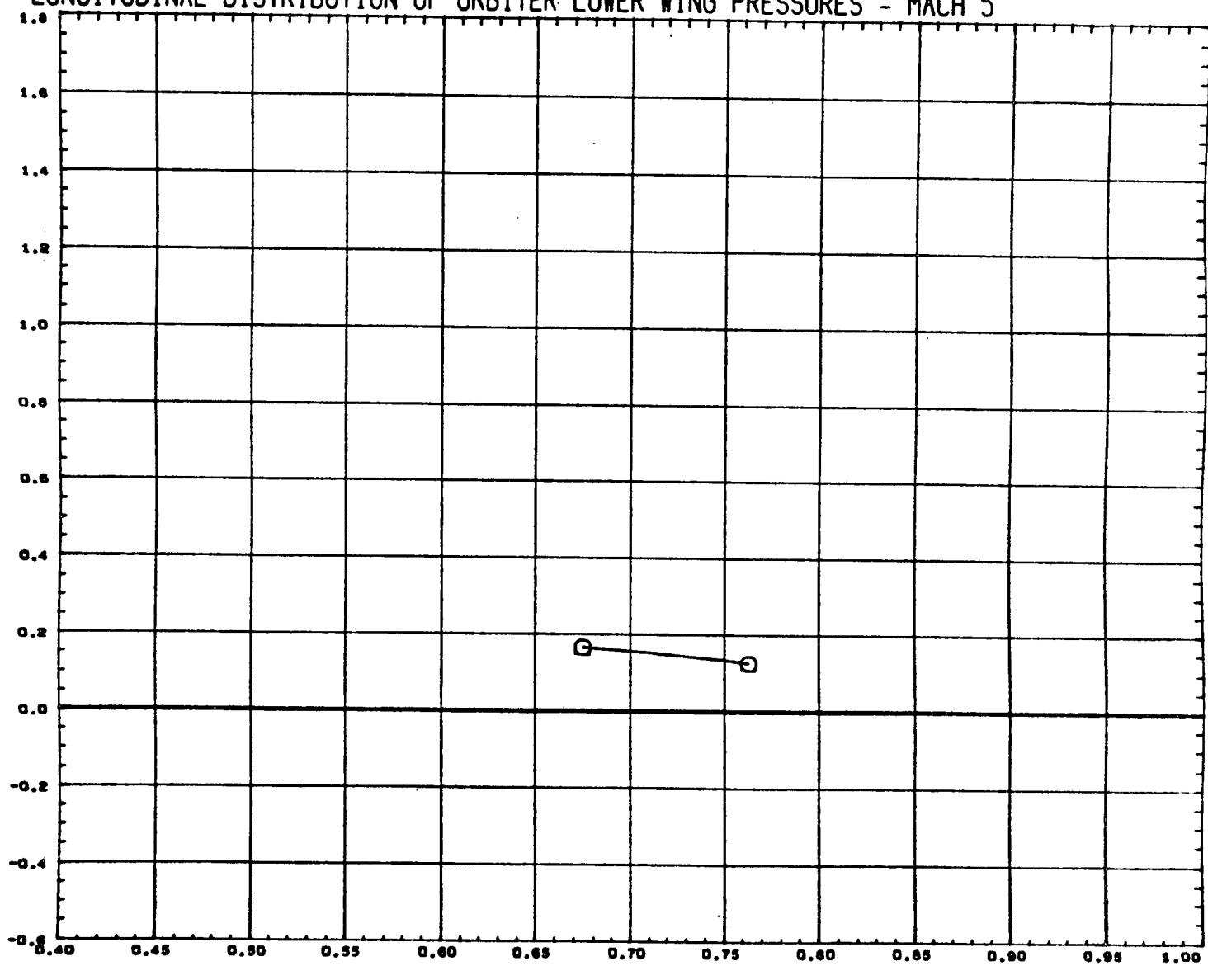
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8515•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



SYMBOL	DELTA X	Y/B	DELTA Z
C	0.320	0.399	0.908

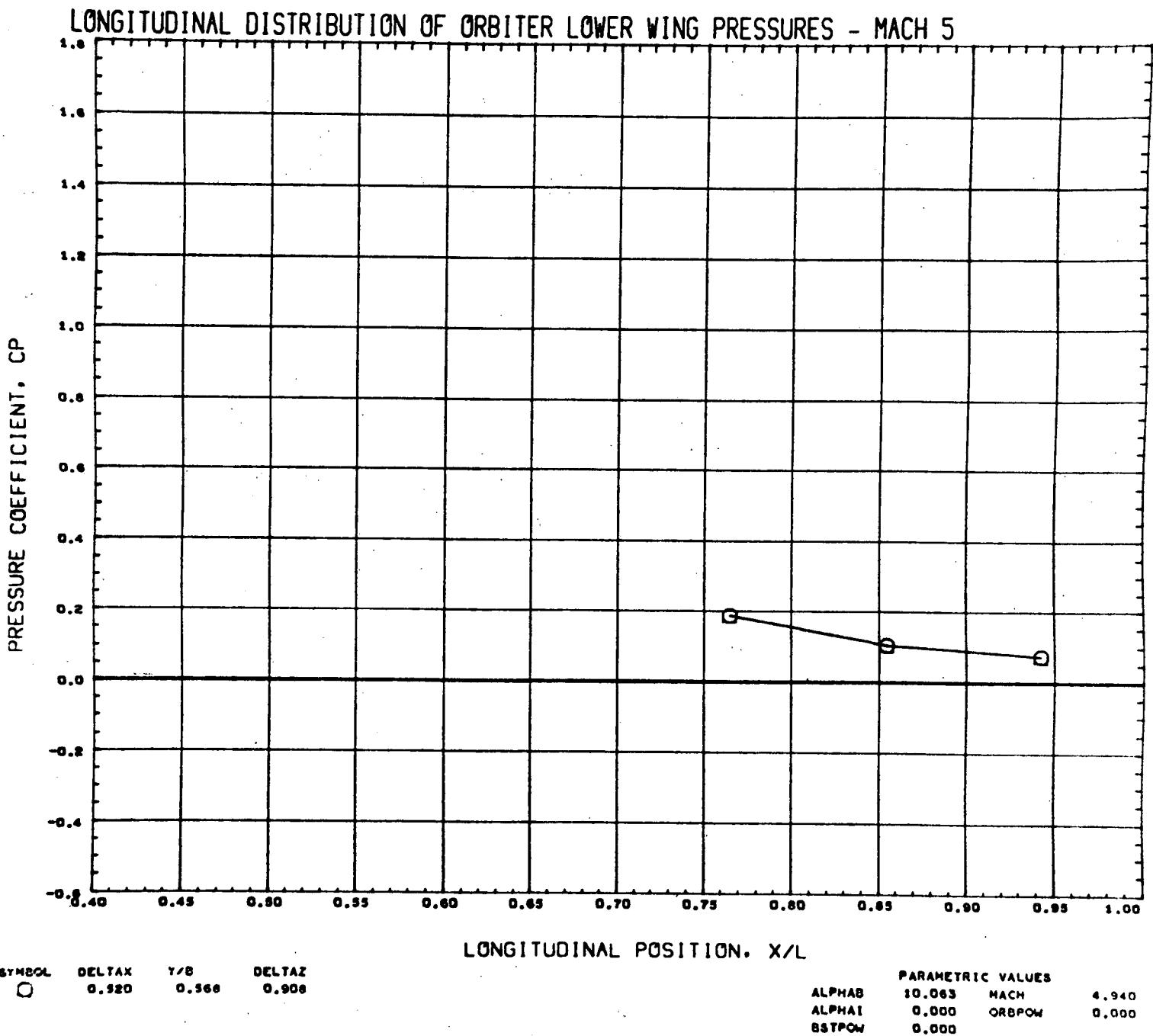
PARAMETRIC VALUES		
ALPHAB	10.063	MACH 4.940
ALPHAT	0.000	ORBPOW 0.000
BSTPOW	0.000	

REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8515•

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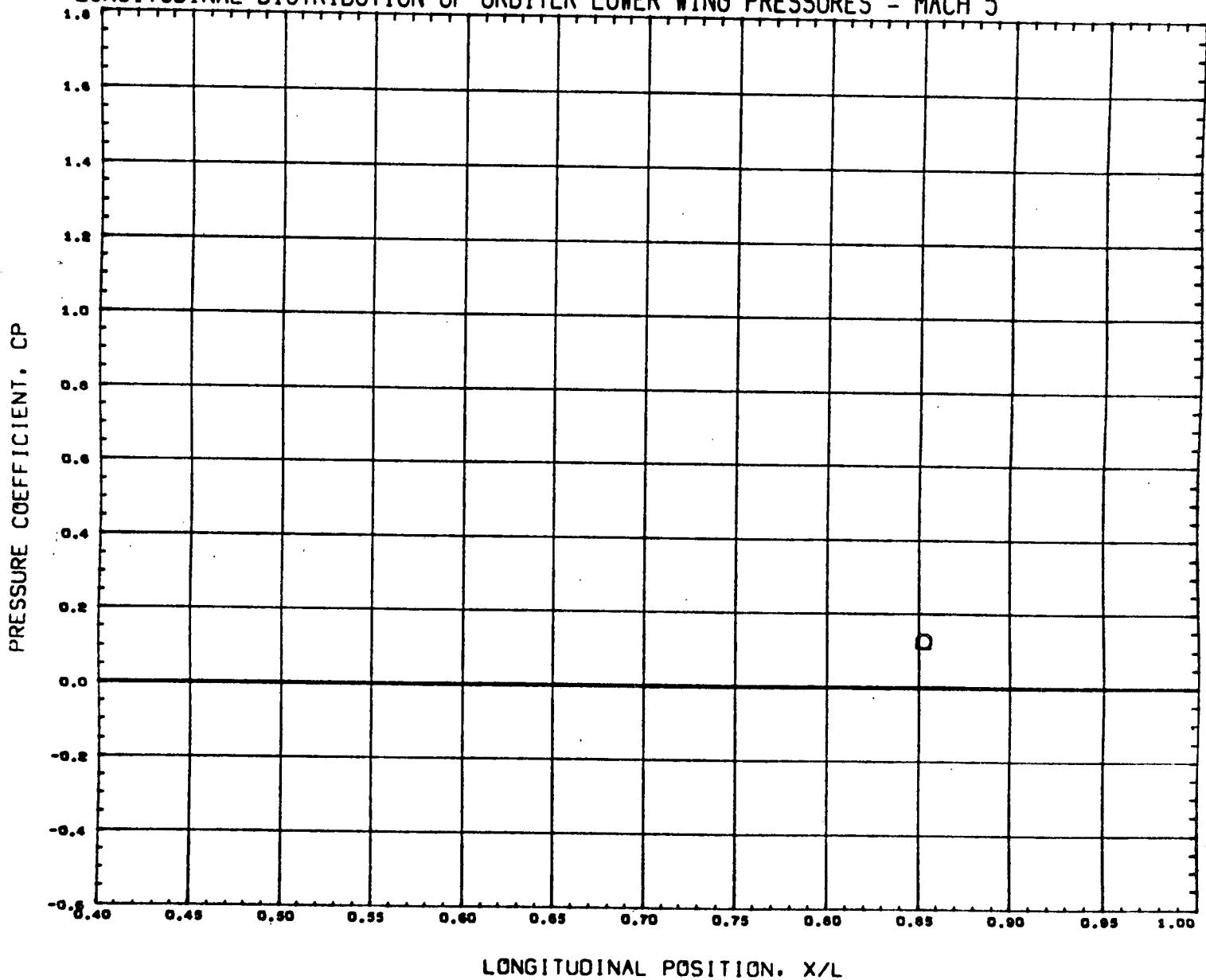


REFERENCE FILE
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8515•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL DELTAX Y/B DELTAZ
C 0.520 0.738 0.908

LONGITUDINAL POSITION, X/L

PARAMETRIC VALUES			
ALPHAB	10.063	MACH	4.940
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

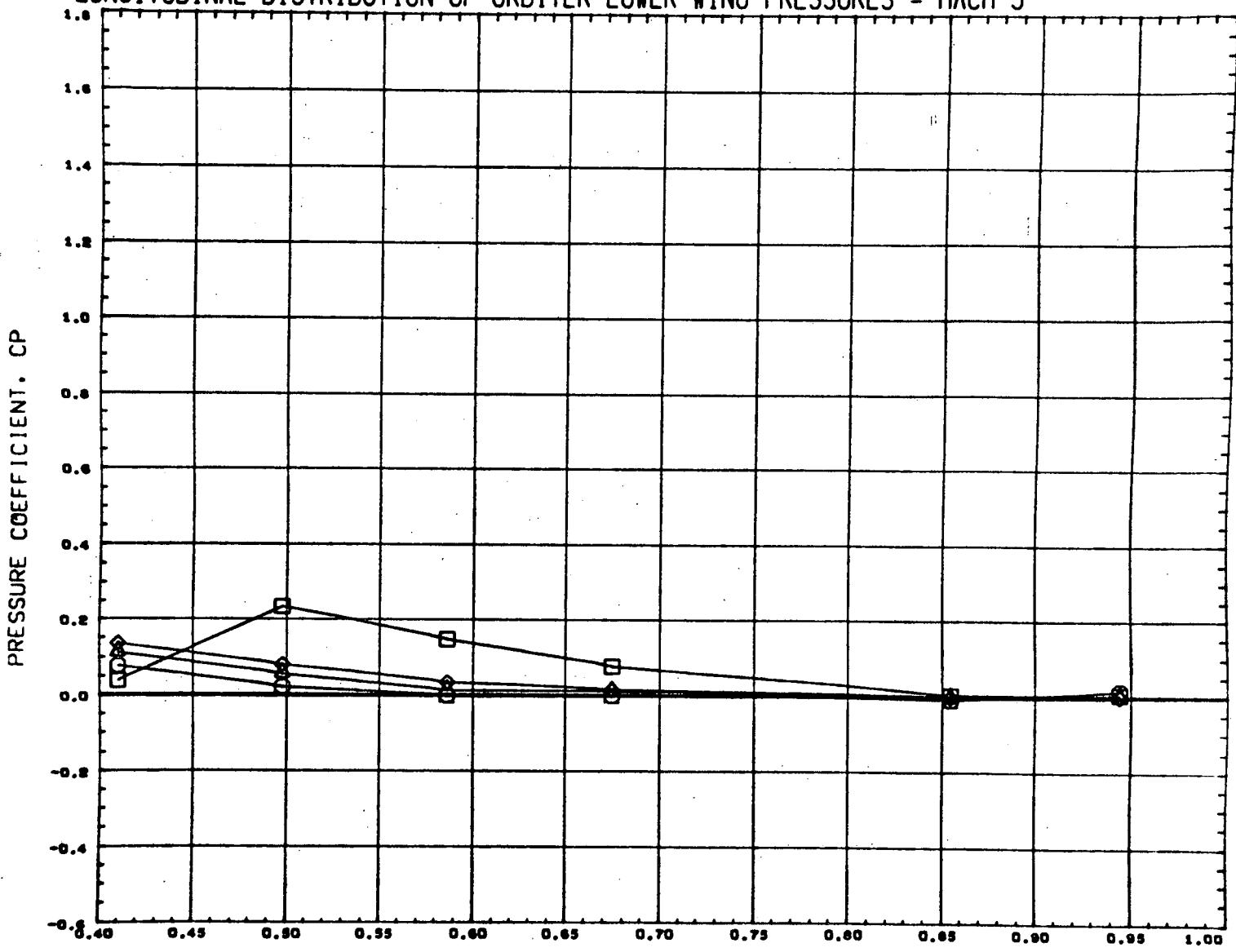
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8515•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION. X/L

SYMBOL	DELTAX	T/B	DELTAZ
□	0.041	0.230	0.114
△	0.103		
◇	0.165		
◆	0.350		

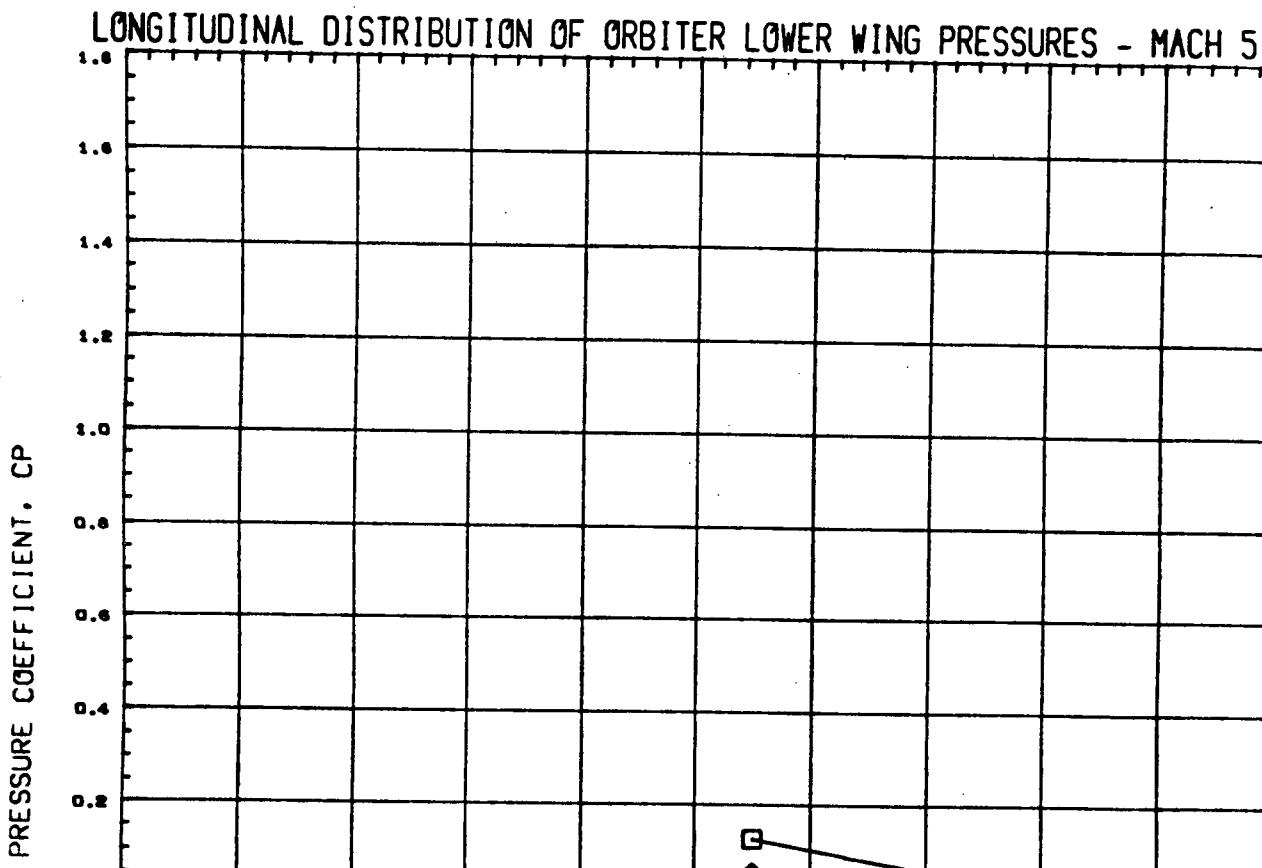
PARAMETRIC VALUES			
ALPHAB	9.932	MACH	4.940
ALPHAT	0.000	ORBPOW	50.000
BSTPOW	100.000		

REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8521•

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LONGITUDINAL POSITION. X/L

SYMBOL	DELTA X	T/B	DELTA Z
△	0.041	0.399	0.114
◊	0.103		
◆	0.165		
□	0.350		

PARAMETRIC VALUES		
ALPHAB	- 9.932	MACH 4.940
ALPHAI	0.000	ORBPOW 50.000
BSTPOW	100.000	

REFERENCE FILE

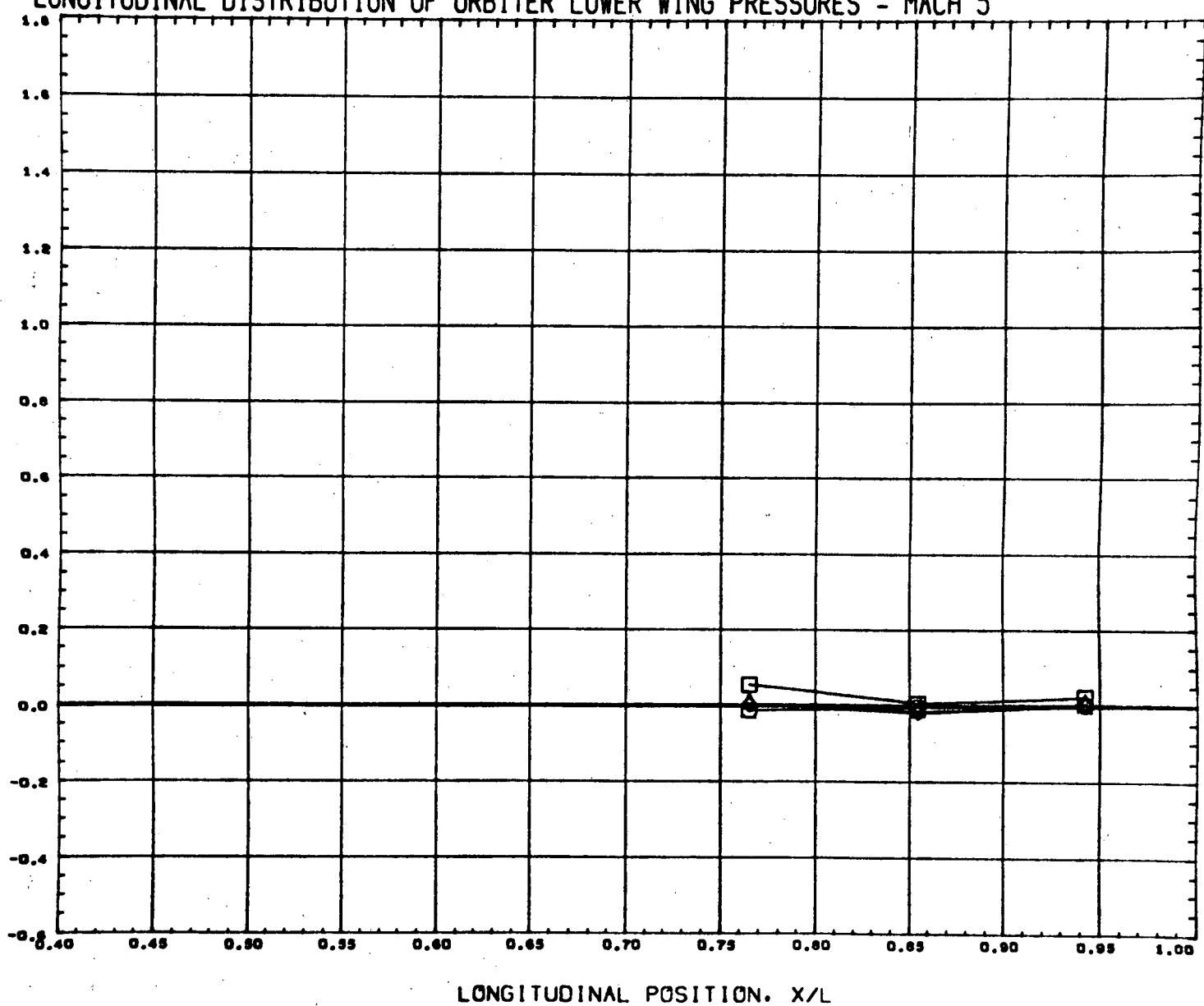
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8521•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION. X/L

SYMBOL	DELTA X	Y/B	DELTA Z
Δ	0.041	0.966	0.114
\diamond	0.103		
\diamond	0.165		
\diamond	0.350		

PARAMETRIC VALUES			
ALPHAB	- 9.932	MACH	4.940
ALPHAI	0.000	ORBPOW	50.000
BSTPOW	100.000		

REFERENCE FILE

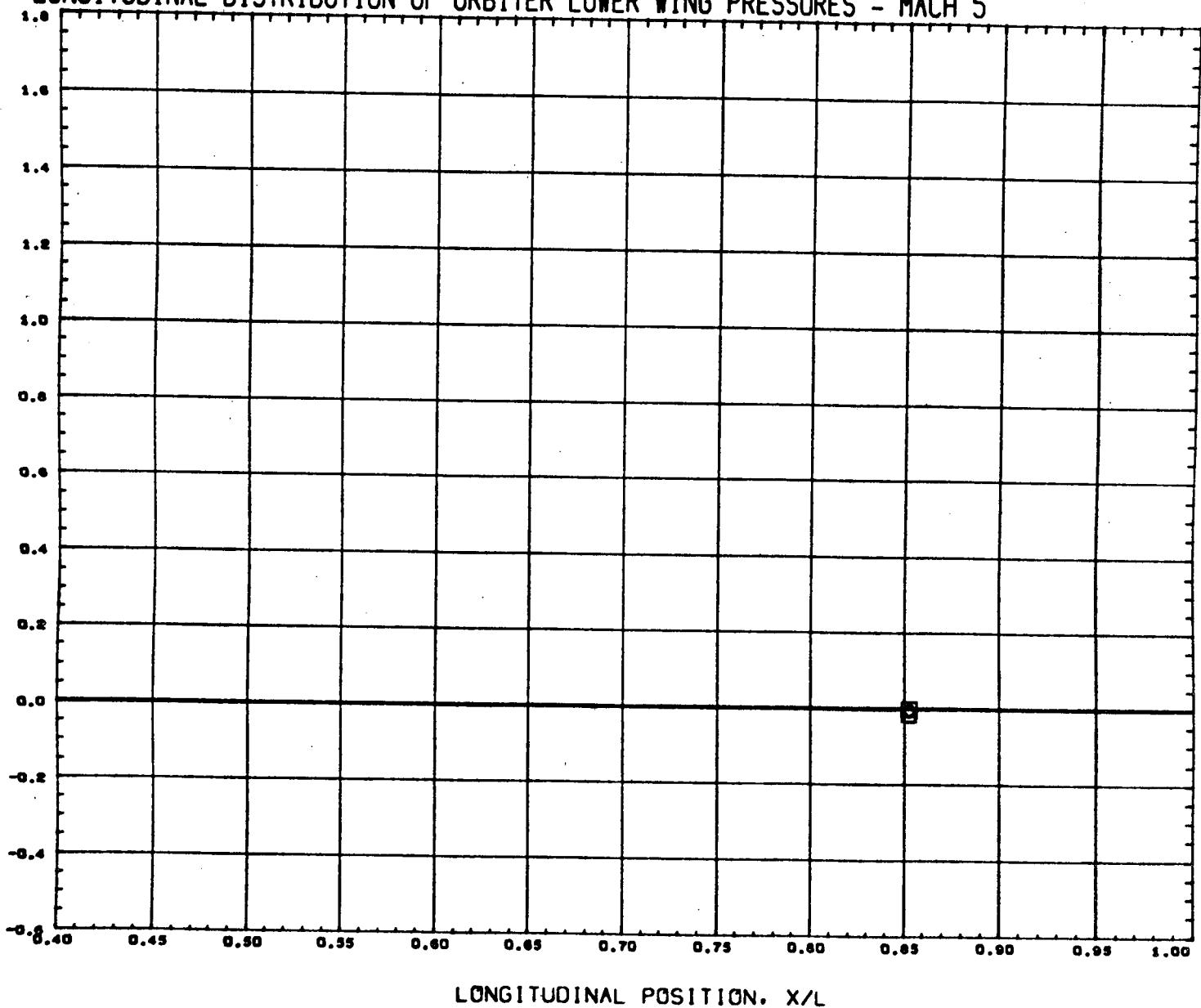
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8521•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL	DELTA X	T/B	DELTA Z
□	0.041	0.738	0.114
△	0.103		
◊	0.169		
○	0.350		

PARAMETRIC VALUES			
ALPHAB	=	0.932	MACH
ALPHAI		0.000	ORBPOW
BSTPOW		100.000	50.000

REFERENCE FILE

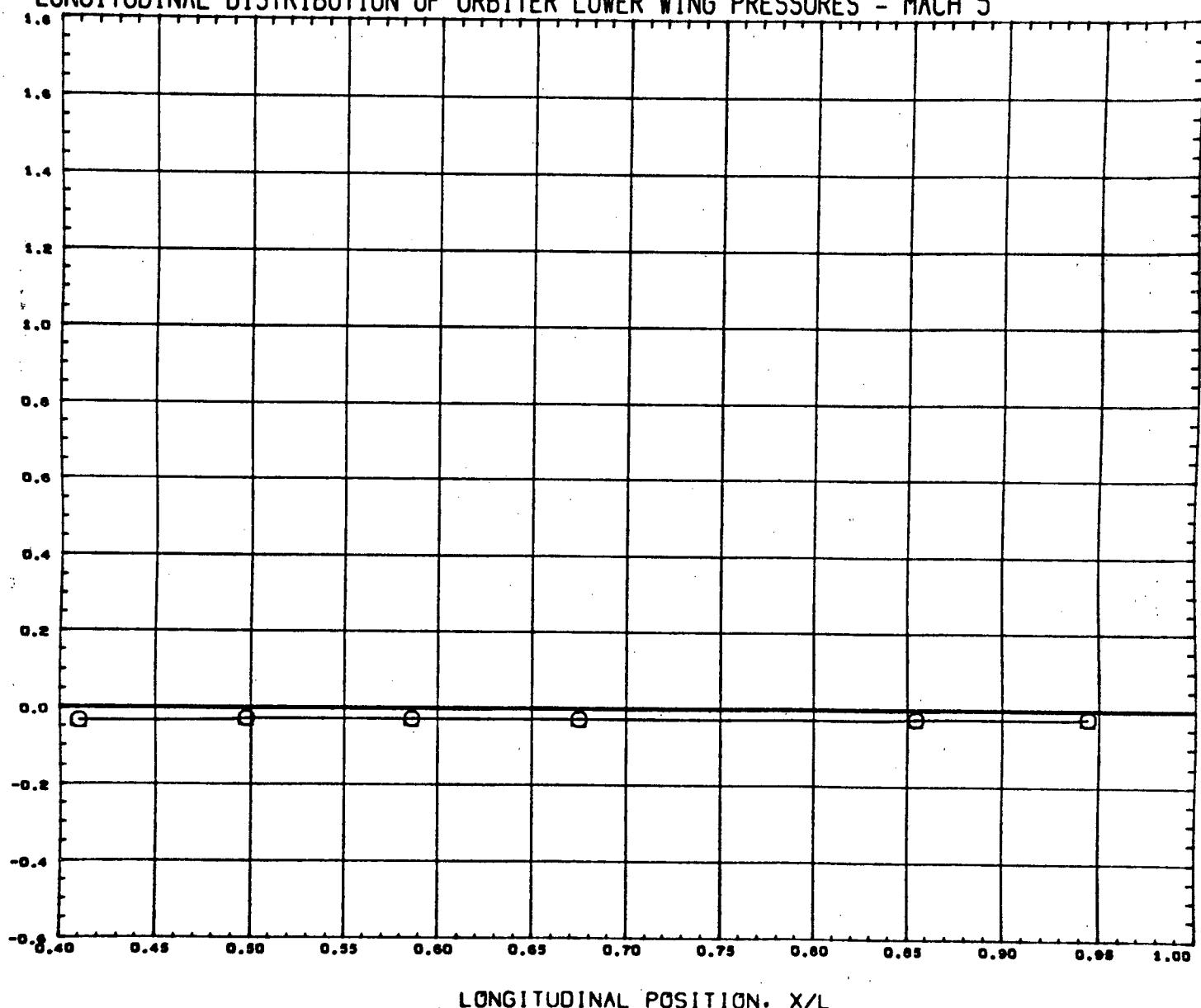
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8521•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION. X/L

SYMBOL DELTAX Y/B DELTAZ
○ 0.920 0.230 0.908

PARAMETRIC VALUES			
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ALPHAT	0.000	ORBPOW	50.000
BSTPOW	100.000		

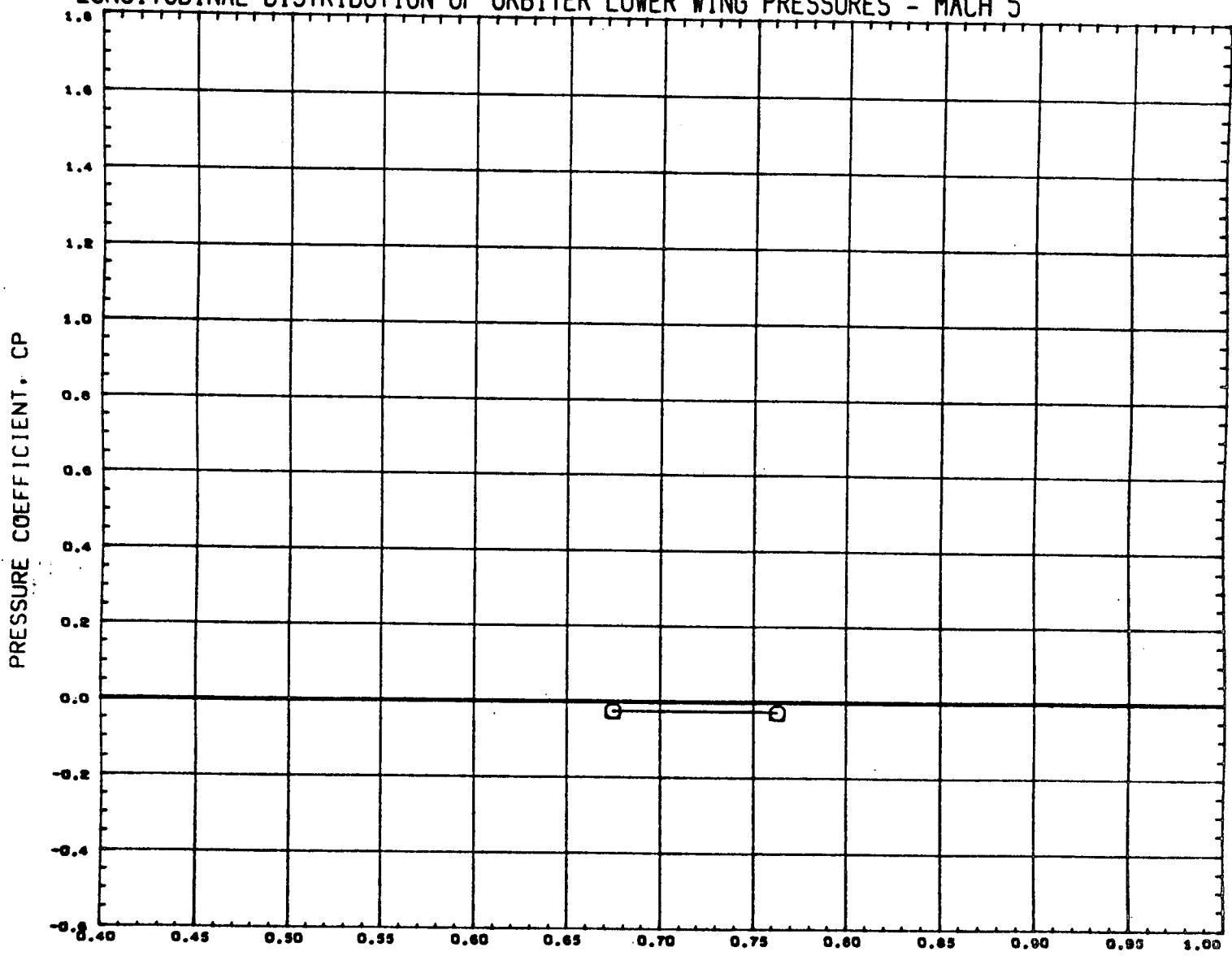
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AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8521•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



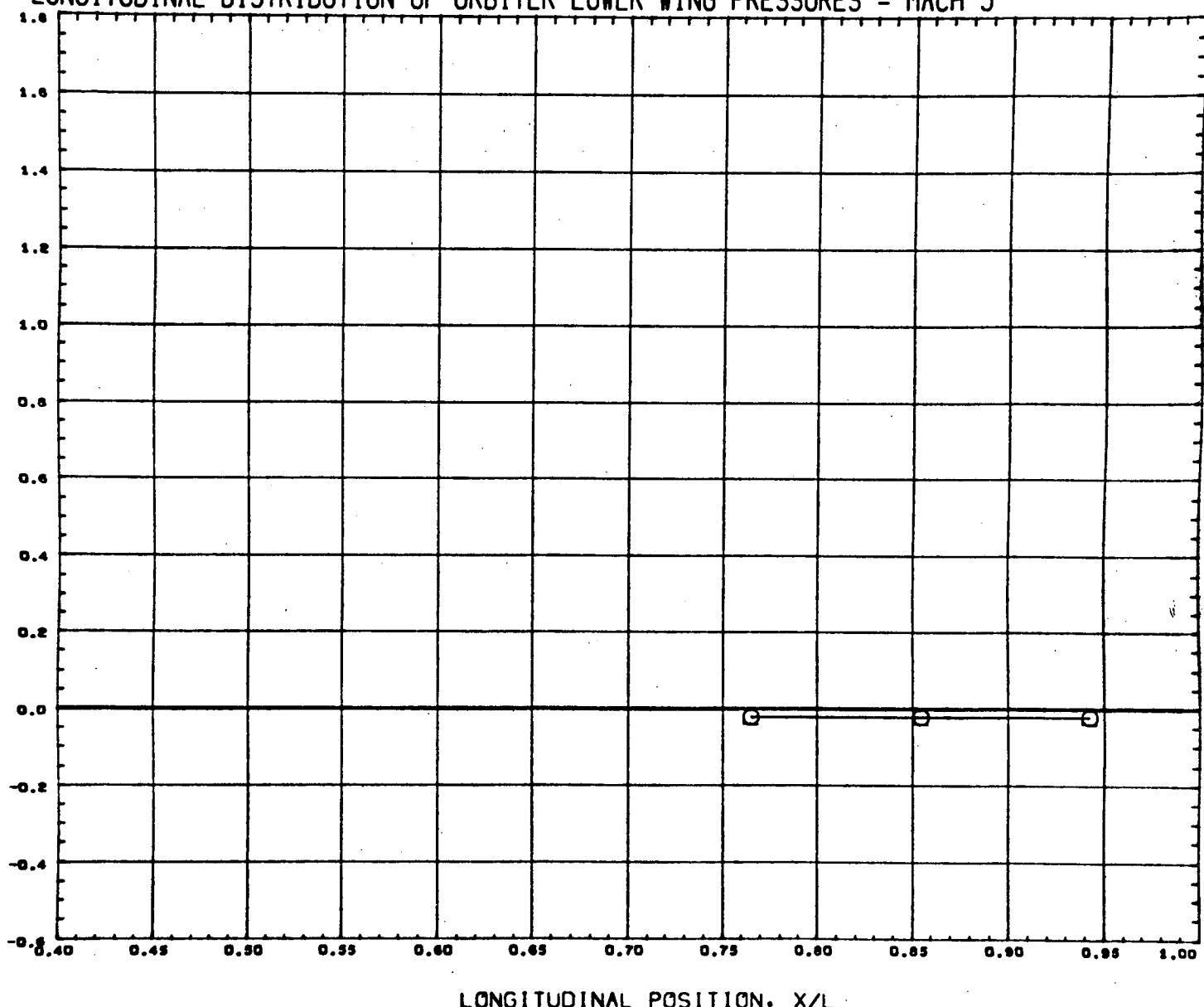
REFERENCE FILE
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8521•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL DELTAX T/6 DELTAZ
□ 0.520 0.566 0.909

	ALPHAB	MACH	ORBPOW
ALPHAB	9.932	4.940	
ALPHAT	0.000		50.000
BSTPOW	100.000		

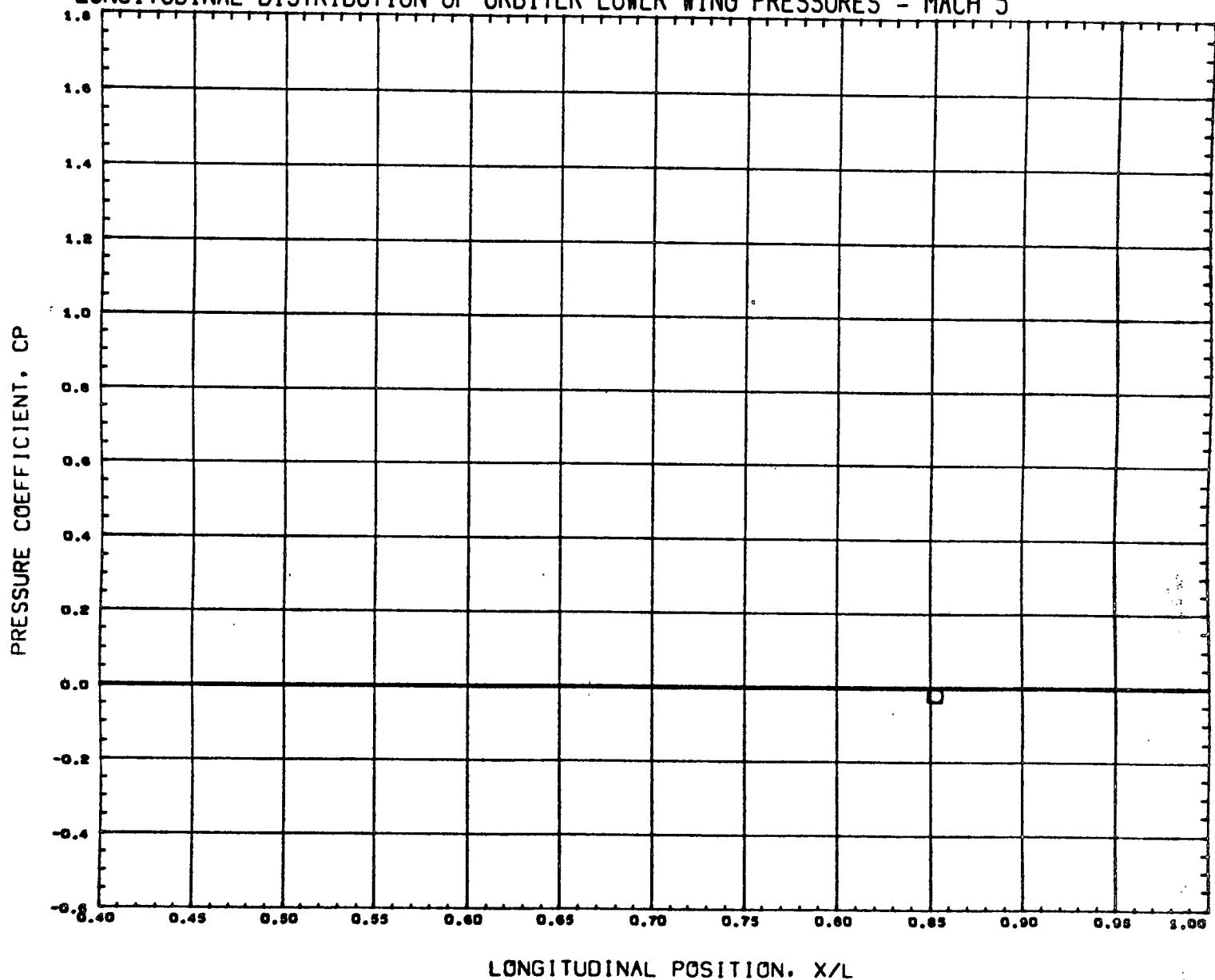
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AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8521•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



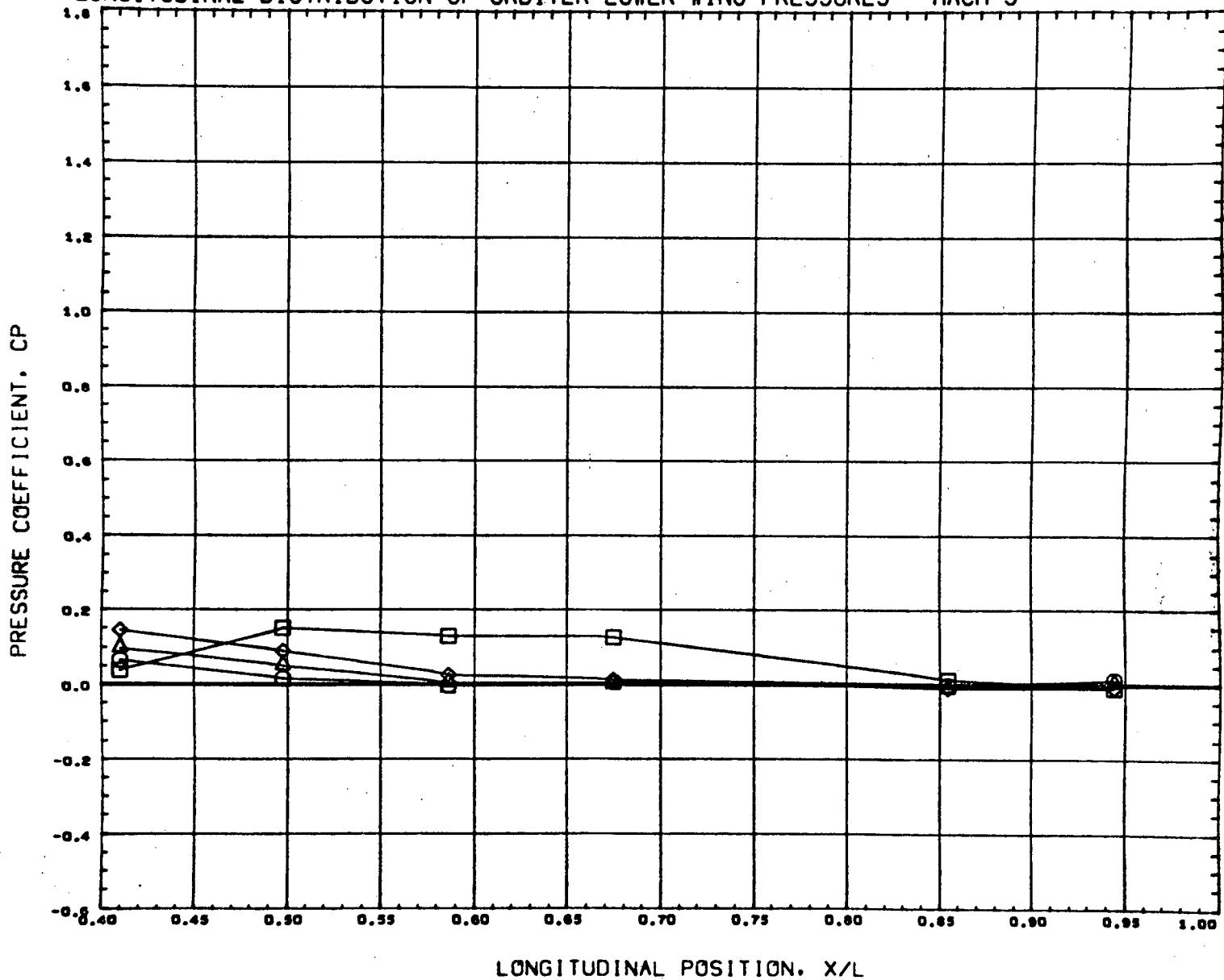
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8521•

PAGE 604

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL DELTAX Y/B DELTAZ
 ◇ 0.041 0.230 0.114
 □ 0.103
 △ 0.165
 ▲ 0.350

LONGITUDINAL POSITION, X/L

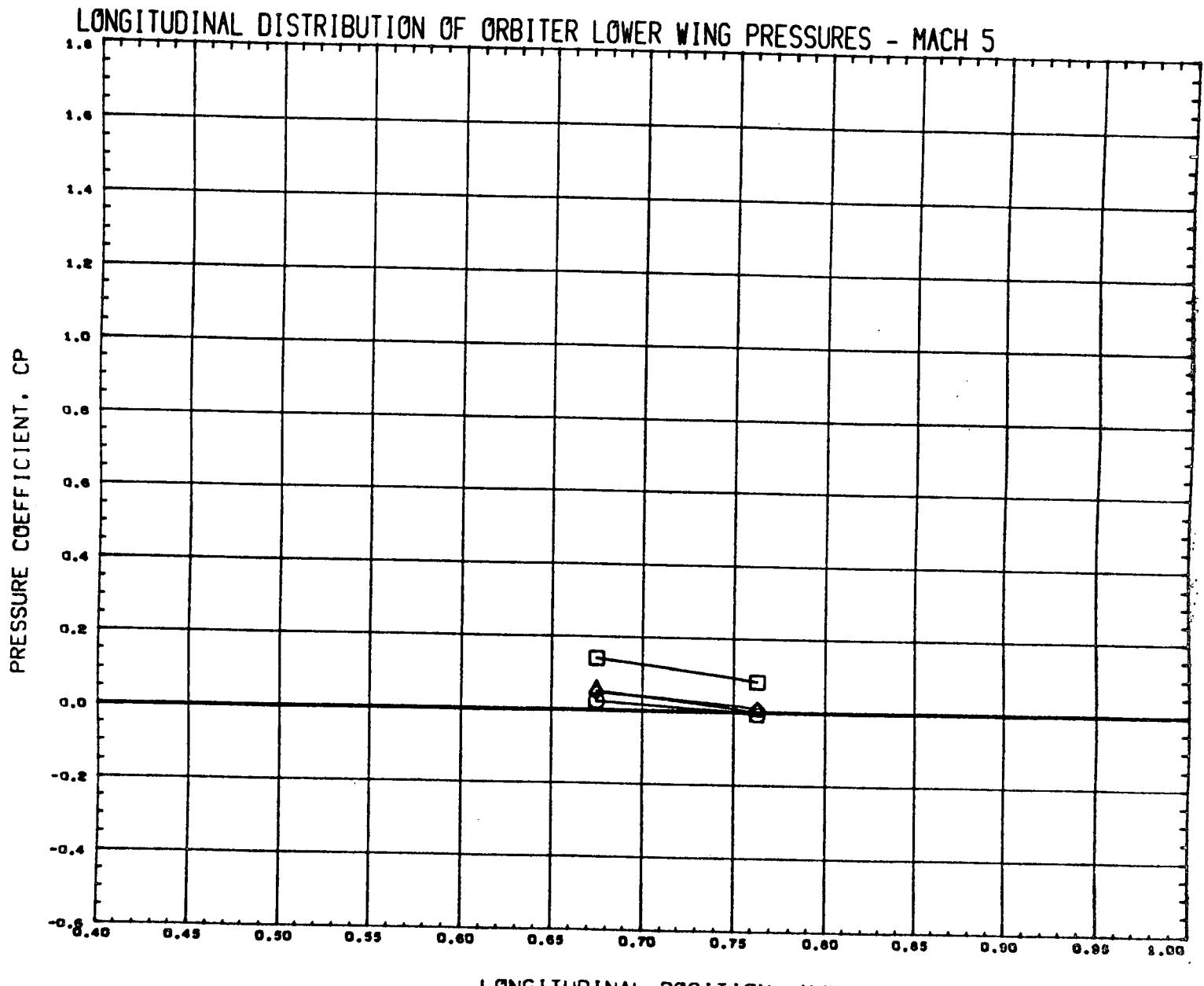
PARAMETRIC VALUES		
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BSTPOW	=	100.000
MACH	=	4.940
ORBPOW	=	50.000

REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8522•

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SYMBOL	DELTA X	Y/B	DELTA Z
△	0.041	0.399	0.114
◇	0.103		
○	0.169		
□	0.350		

PARAMETRIC VALUES			
ALPHAB	- 4.908	MACH	4.940
ALPHAI	0.000	ORBPOW	50.000
BSTPOW	100.000		

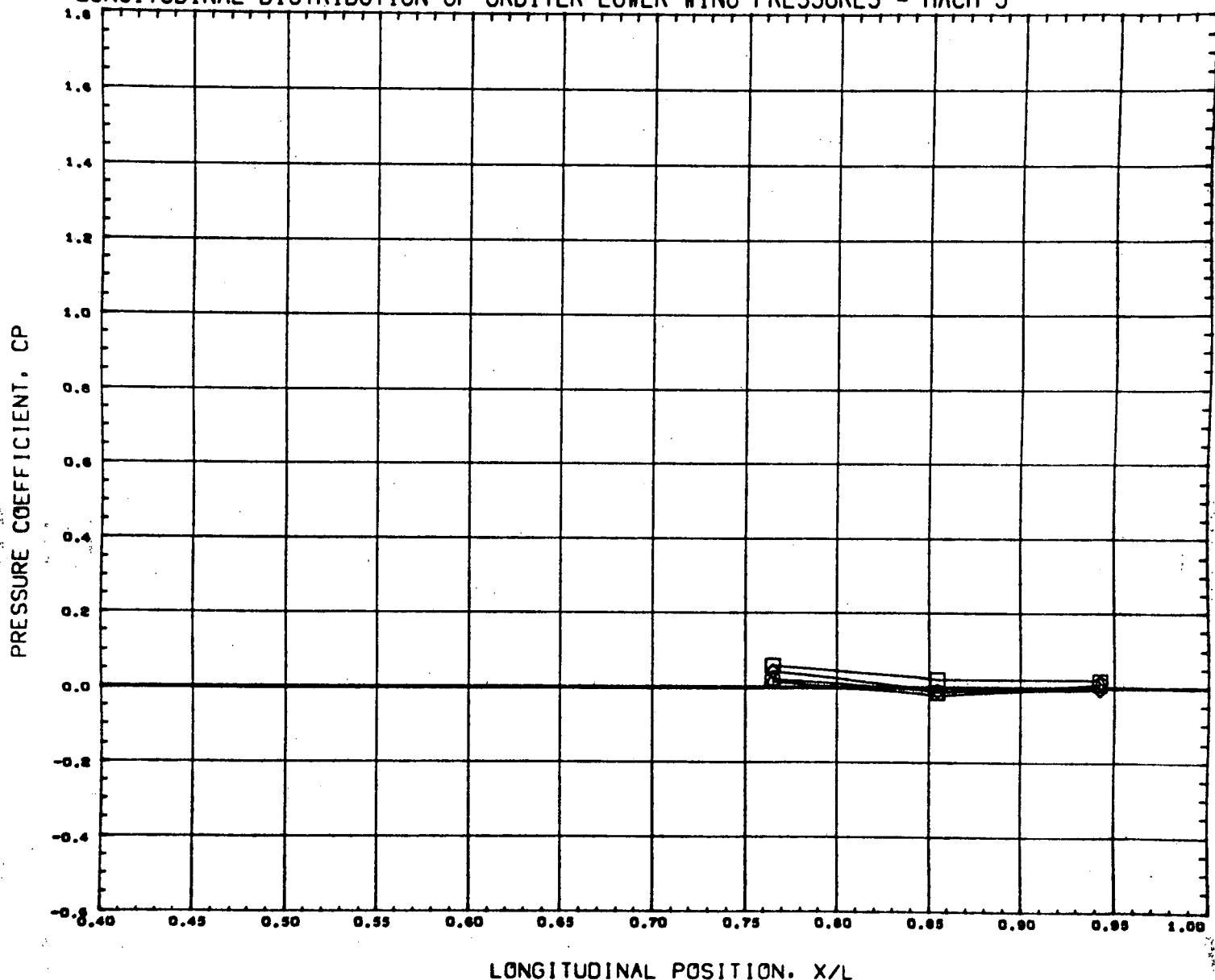
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8522•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
□	0.041	0.968	0.214
△	0.103		
◊	0.165		
◆	0.350		

PARAMETRIC VALUES			
ALPHAB	- 4.906	MACH	4.940
ALPHAI	0.000	ORBPOW	50.000
BSTPOW	100.000		

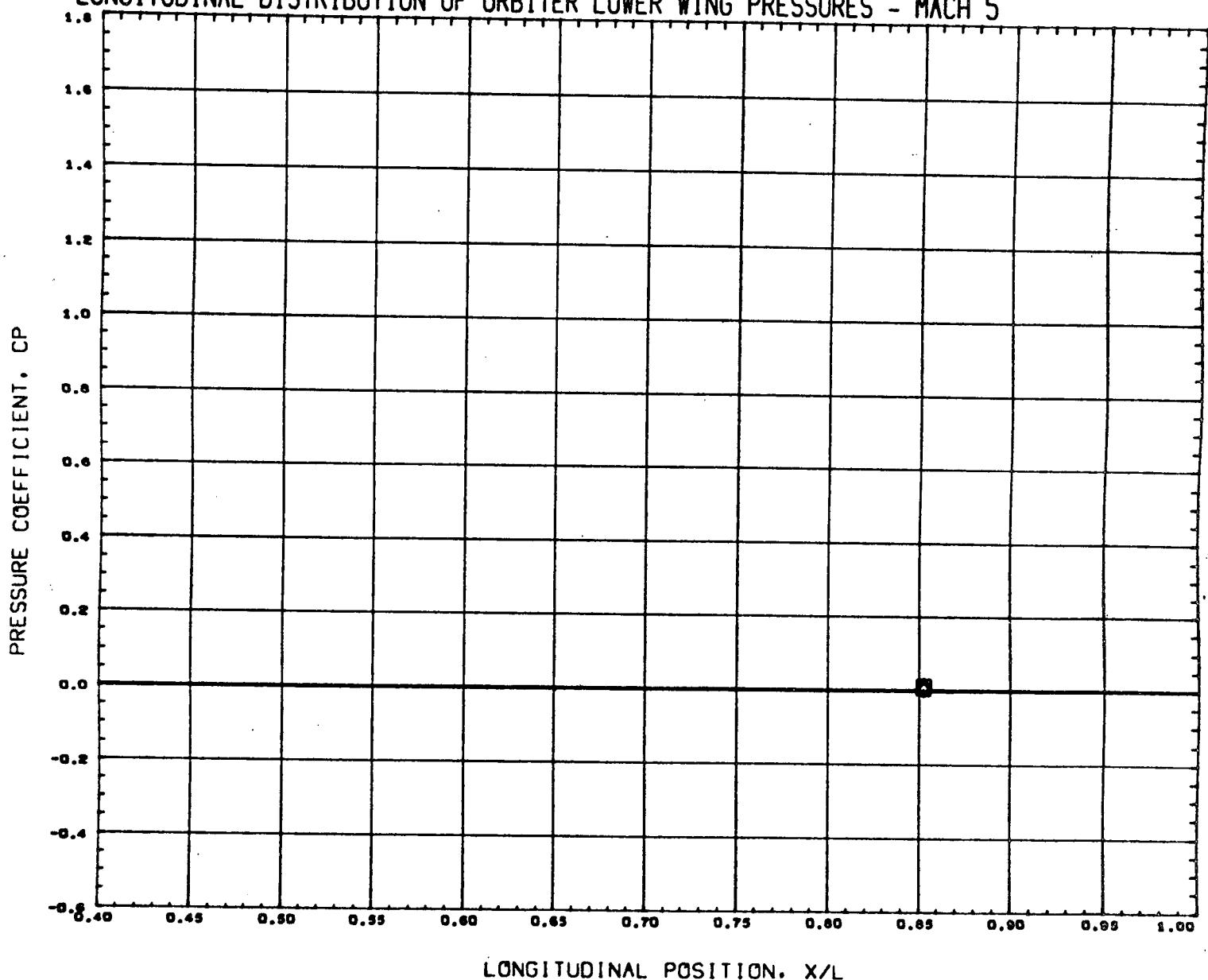
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8522•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	T/B	DELTA Z
C	0.041	0.736	0.114
△	0.103		
◊	0.165		
□	0.398		

PARAMETRIC VALUES		
ALPHAB	- 4.908	MACH 4.940
ALPHAI	0.000	ORBPW 50.000
BSTPOW	100.000	

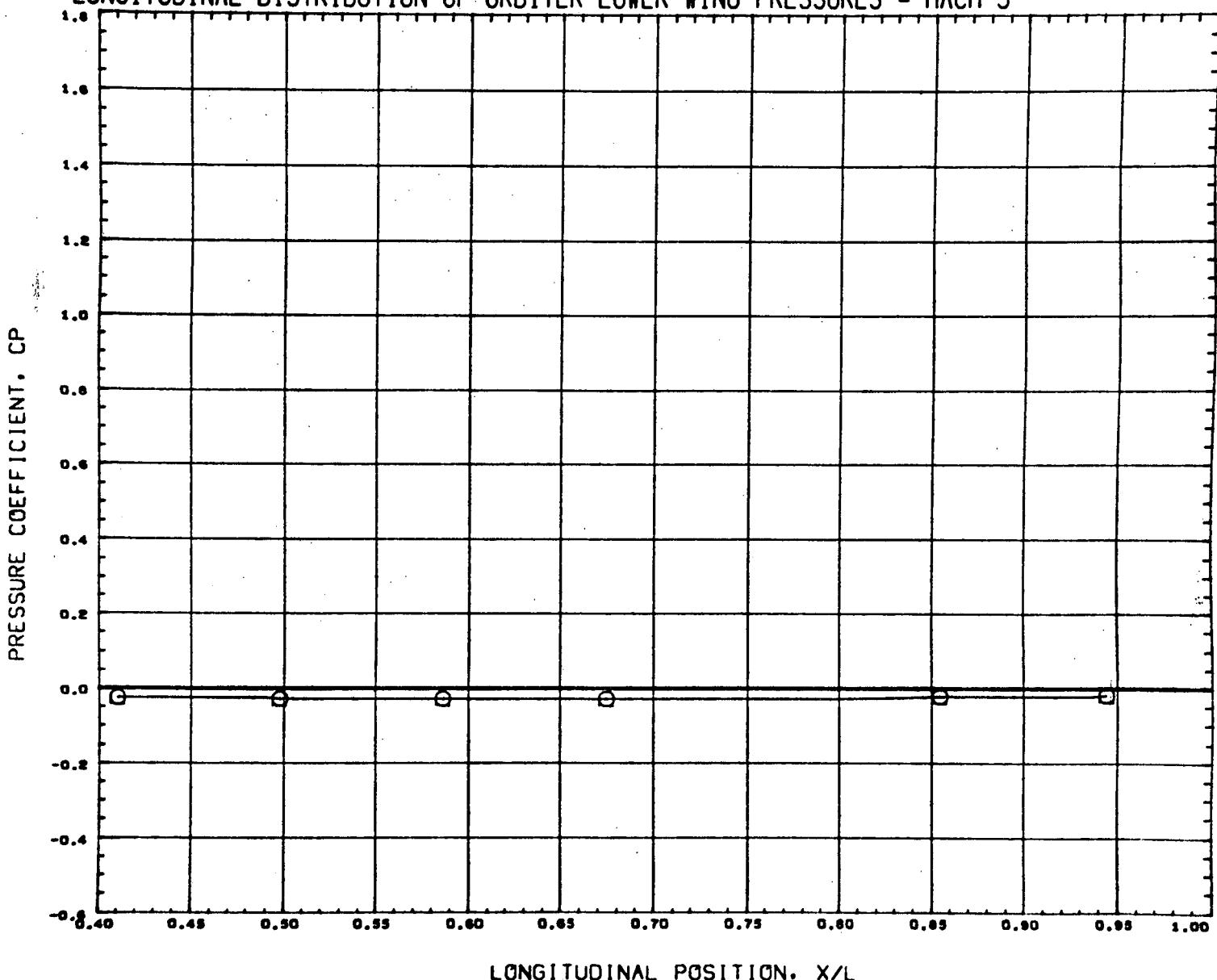
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8522•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL DELTAX Y/B DELTAZ

 0.920 0.230 0.908

PARAMETRIC VALUES

ALPHAB	=	4.908	MACH	4.940
ALPHAI	=	0.000	ORBPOW	50,000
BSTPOW	=	100,000		

REFERENCE FILE

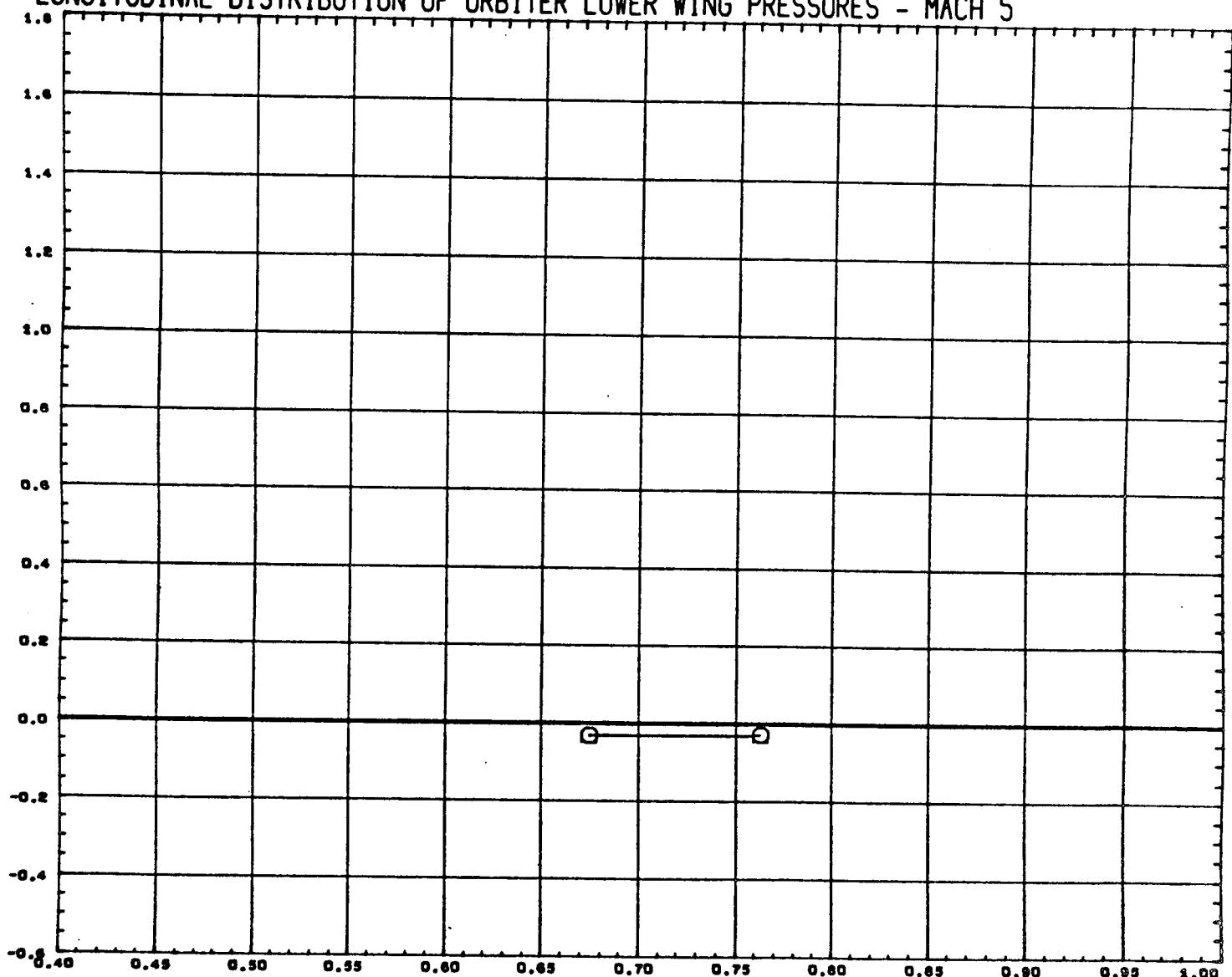
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8522•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION. X/L

SYMBOL DELTAX Y/B DELTAZ
○ 0.520 0.399 0.908

PARAMETRIC VALUES		
ALPHAB	- 4.908	MACH 4.940
ALPHAI	0.000	ORBPOW 50,000
BSTPOW	100,000	

REFERENCE FILE

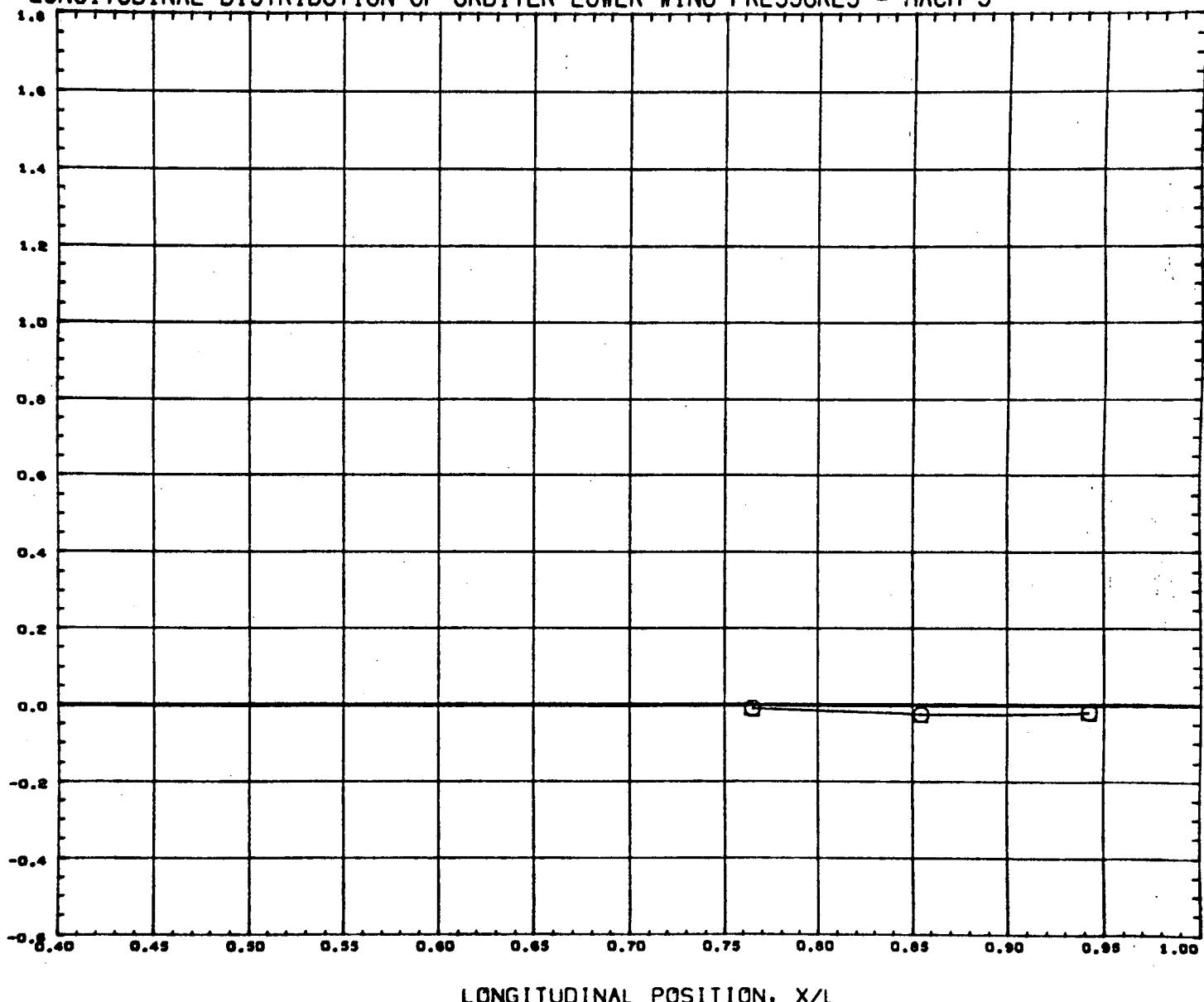
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8522•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



LONGITUDINAL POSITION. X/L

SYMBOL	DELTA X	T/B	DELTA Z
	0.920	0.968	0.900

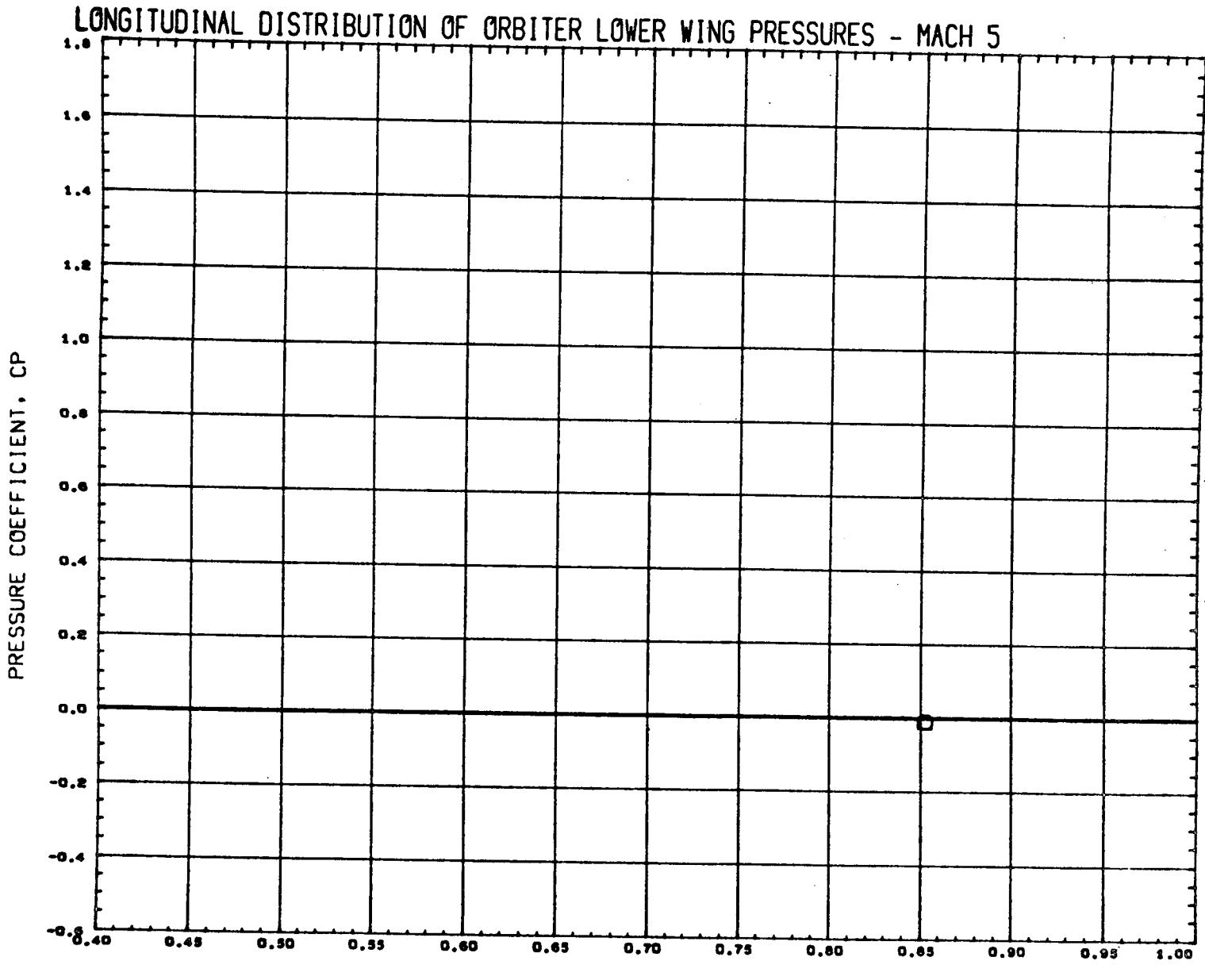
PARAMETRIC VALUES		
ALPHAB	- 4.908	MACH 4.940
ALPHAI	0.000	ORBPOW 50.000
BSTPOW	100.000	

REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8522•

PAGE 611



SYMBOL DELTAX T/B DELTAZ
 C 0.520 0.736 0.908

PARAMETRIC VALUES
 ALPHAB = 4.908 MACH 4.940
 ALPHAI = 0.000 ORBPOW 50.000
 BSTPOW 100.000

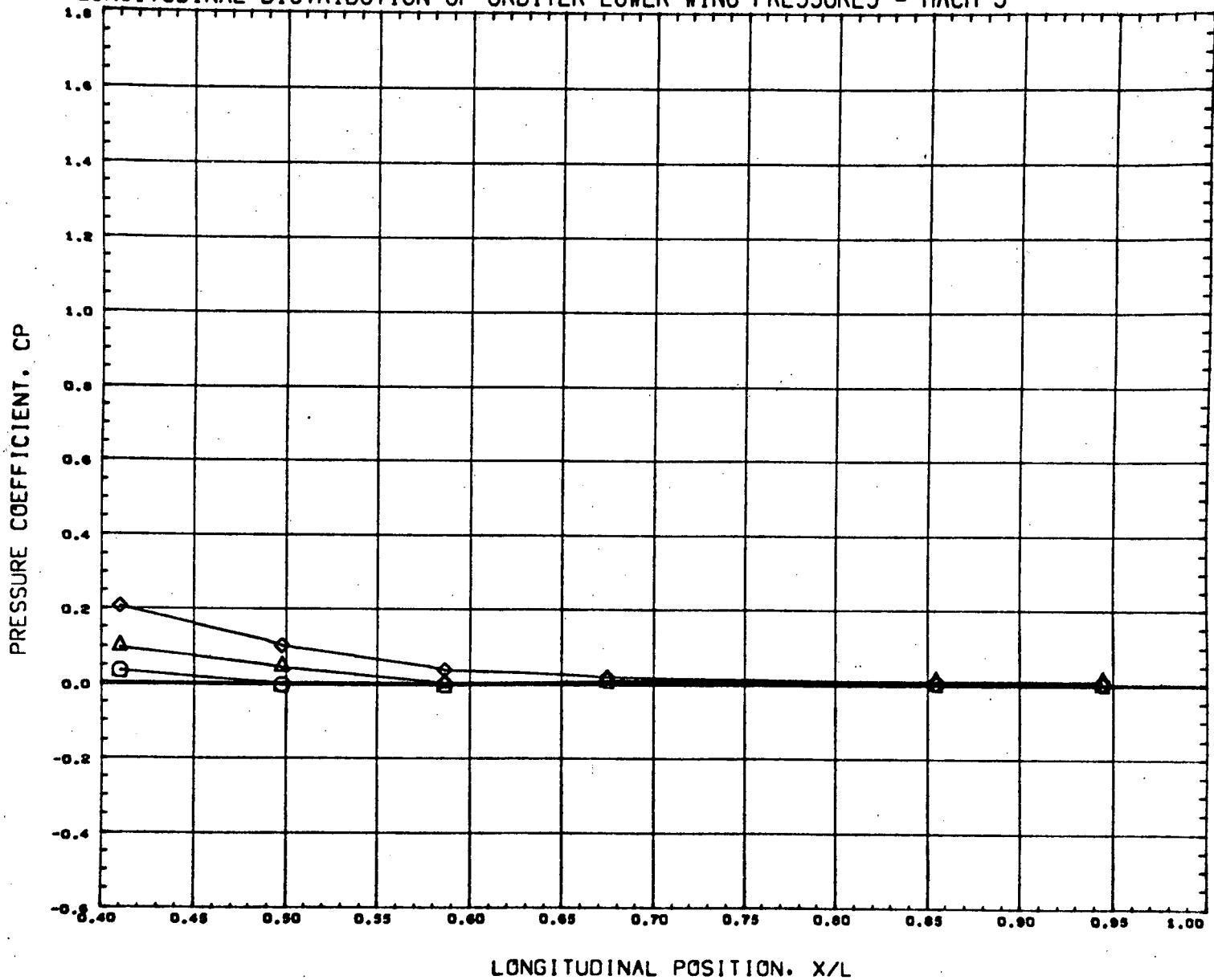
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8522•

PAGE 612

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL DELTAX Y/B DELTAZ

Δ	0.041	0.230	0.114
□	0.103		
◊	0.165		

LONGITUDINAL POSITION. X/L

PARAMETRIC VALUES		
ALPHAB	0.037	MACH 4.940
ALPHAI	0.000	ORBPOW 50.000
BSTPOW	100.000	

REFERENCE FILE

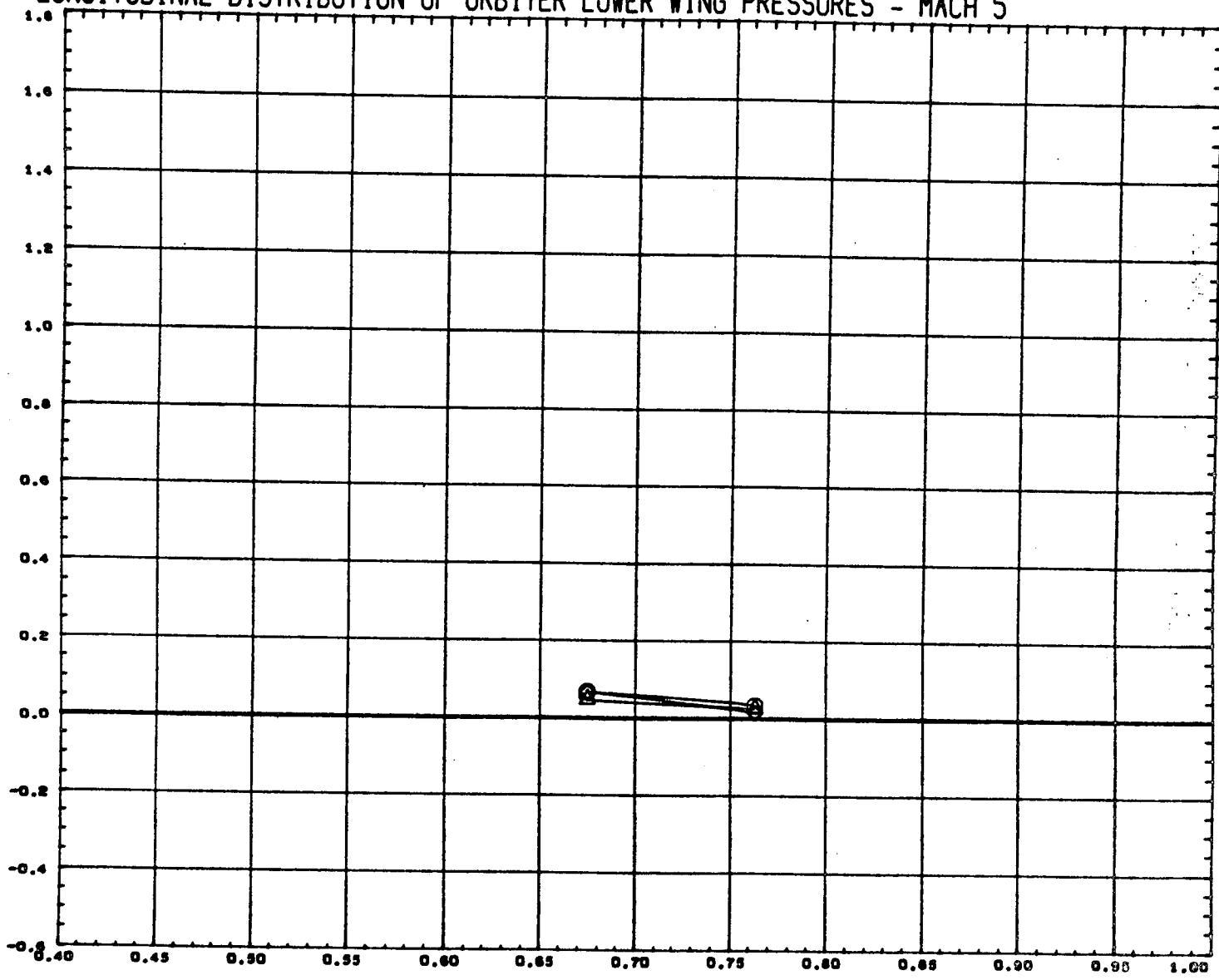
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8523•

PAGE 613

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
△	0.041	0.399	0.114
○	0.103		
◊	0.165		

PARAMETRIC VALUES		
ALPHAB	0.037	MACH 4.940
ALPHAI	0.000	ORBPOW 50.000
BSTPOW	100.000	

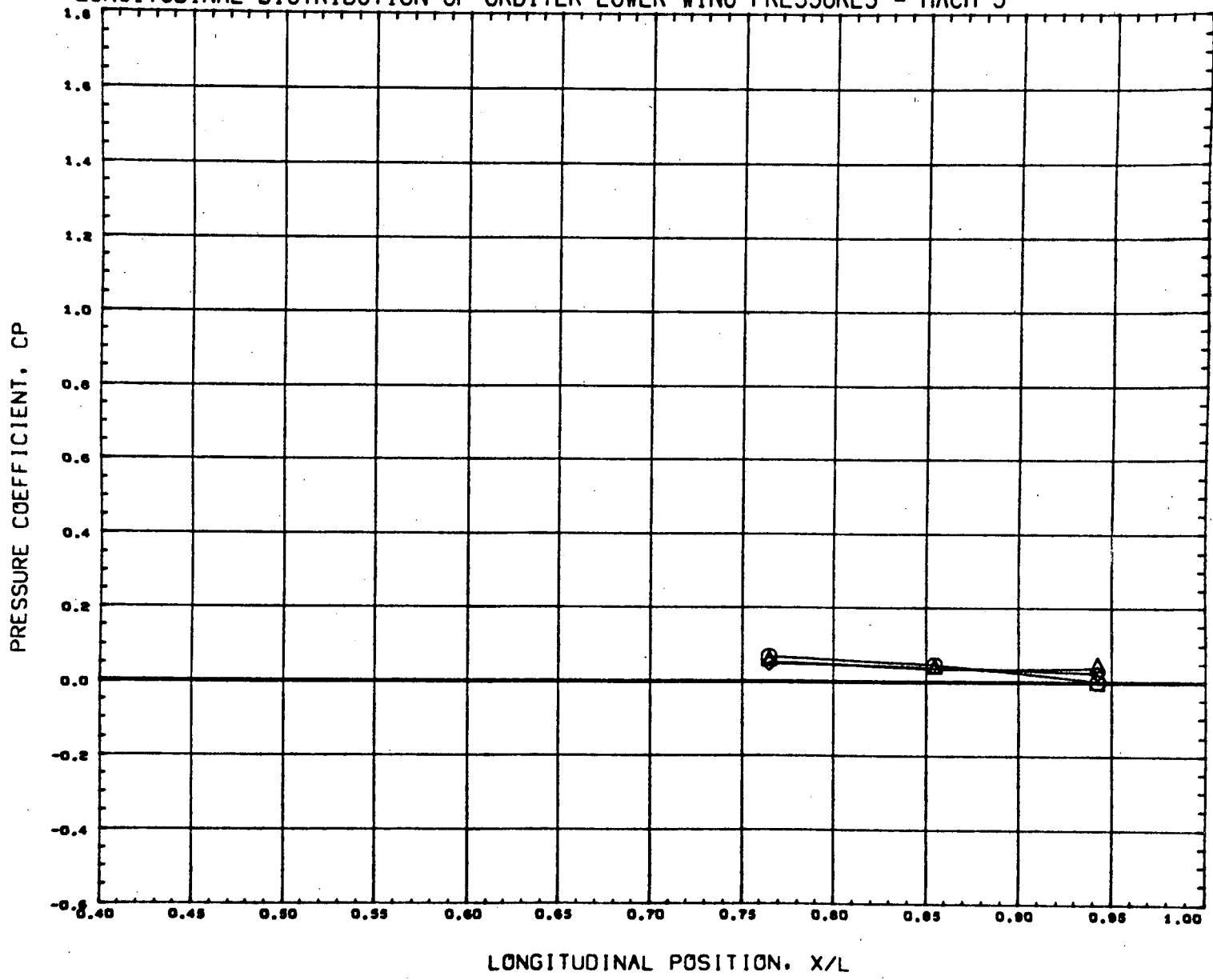
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8523•

PAGE 614

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL DELTAX T/B DELTAZ

○ 0.041 0.960 0.114

△ 0.103 0.103

◊ 0.165 0.165

PARAMETRIC VALUES

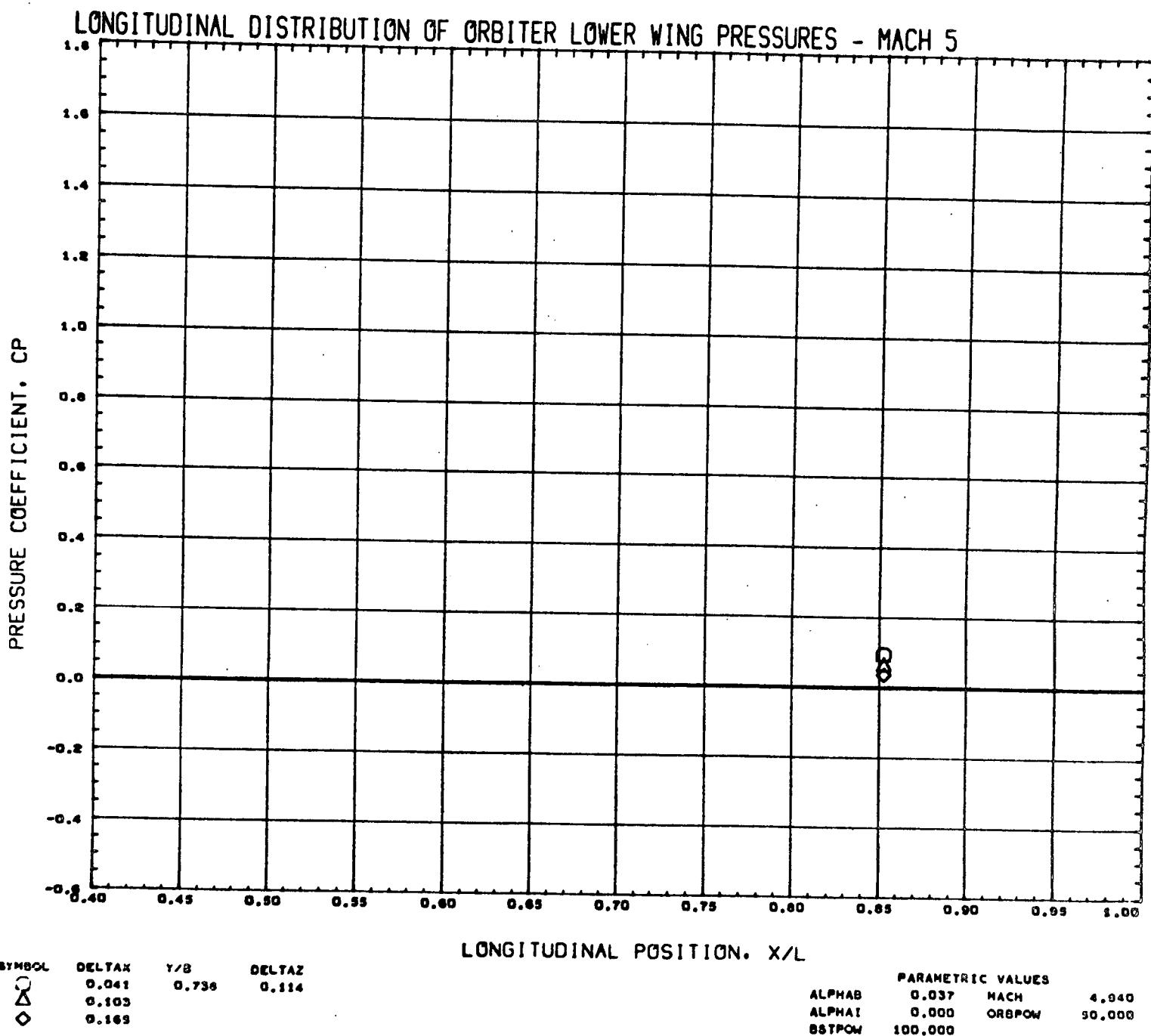
ALPHAB	0.037	MACH	4.940
ALPHAI	0.000	ORBPOW	50.000
BSTPOW	100.000		

REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8523•

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REFERENCE FILE

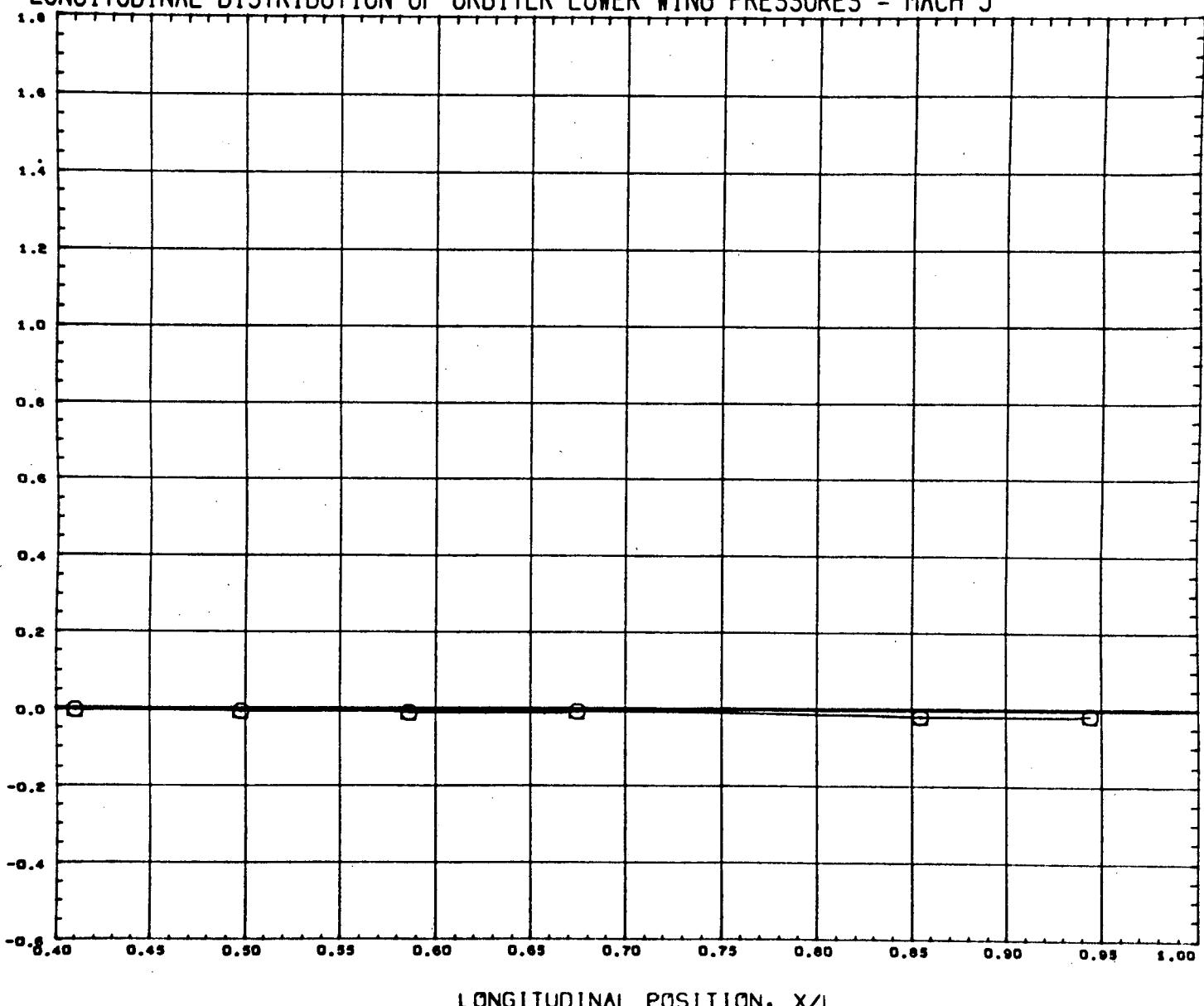
AEDC VAI163 MDAC ORBITER (LOWER WING)

•HT8523•

PAGE 616

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



LONGITUDINAL POSITION. X/L

SYMBOL DELTAX T/R DELTAZ
○ 0.520 0.230 0.908

PARAMETRIC VALUES			
ALPHAB	0.037	MACH	4.940
ALPHAI	0.000	ORBPOW	50.000
BSTPOW	100.000		

REFERENCE FILE

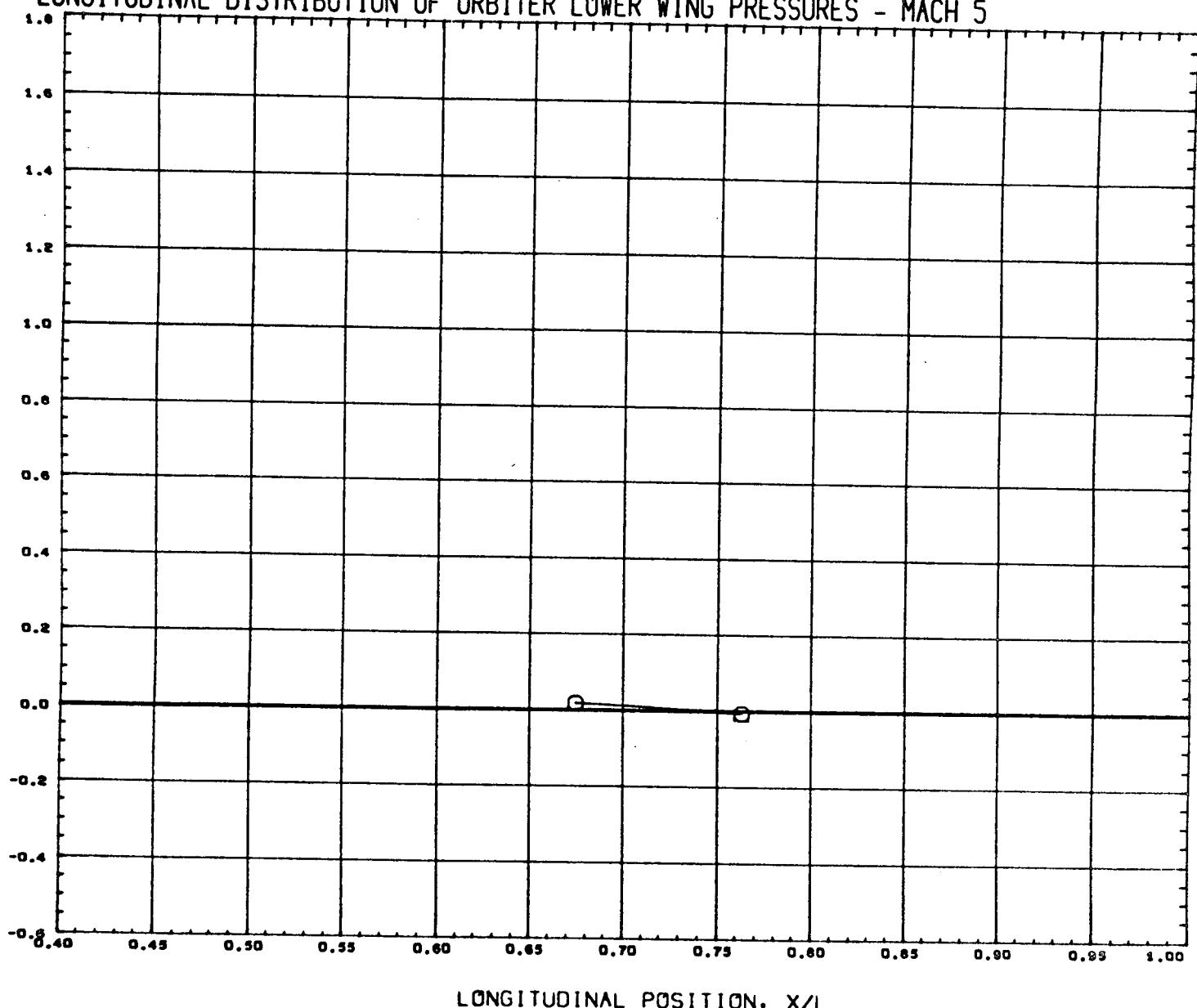
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8523•

PAGE 617

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION, X/L

SYMBOL DELTAX Y/B DELTAZ
 0.320 0.399 0.906

PARAMETRIC VALUES			
ALPHAB	0.037	MACH	4.940
ALPHAI	0.000	ORBPOW	50.000
BSTPOW	100.000		

REFERENCE FILE

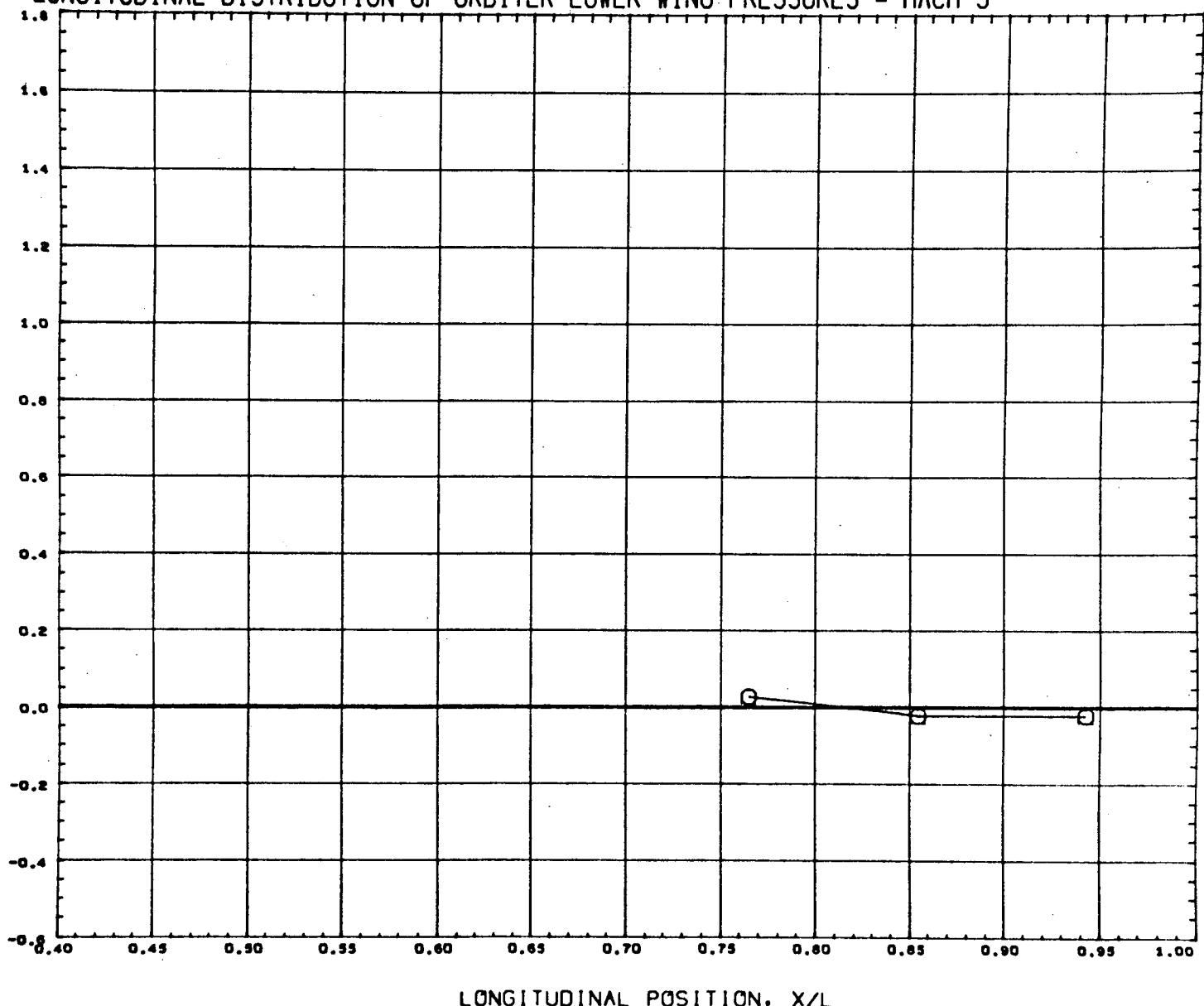
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8523•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION, X/L

SYMBOL DELTAX Y/B DELTAZ
C 0.520 0.568 0.908

PARAMETRIC VALUES			
ALPHAB	0.037	MACH	4.940
ALPHAI	0.000	ORBPOW	50.000
BSTPOW	100.000		

REFERENCE FILE

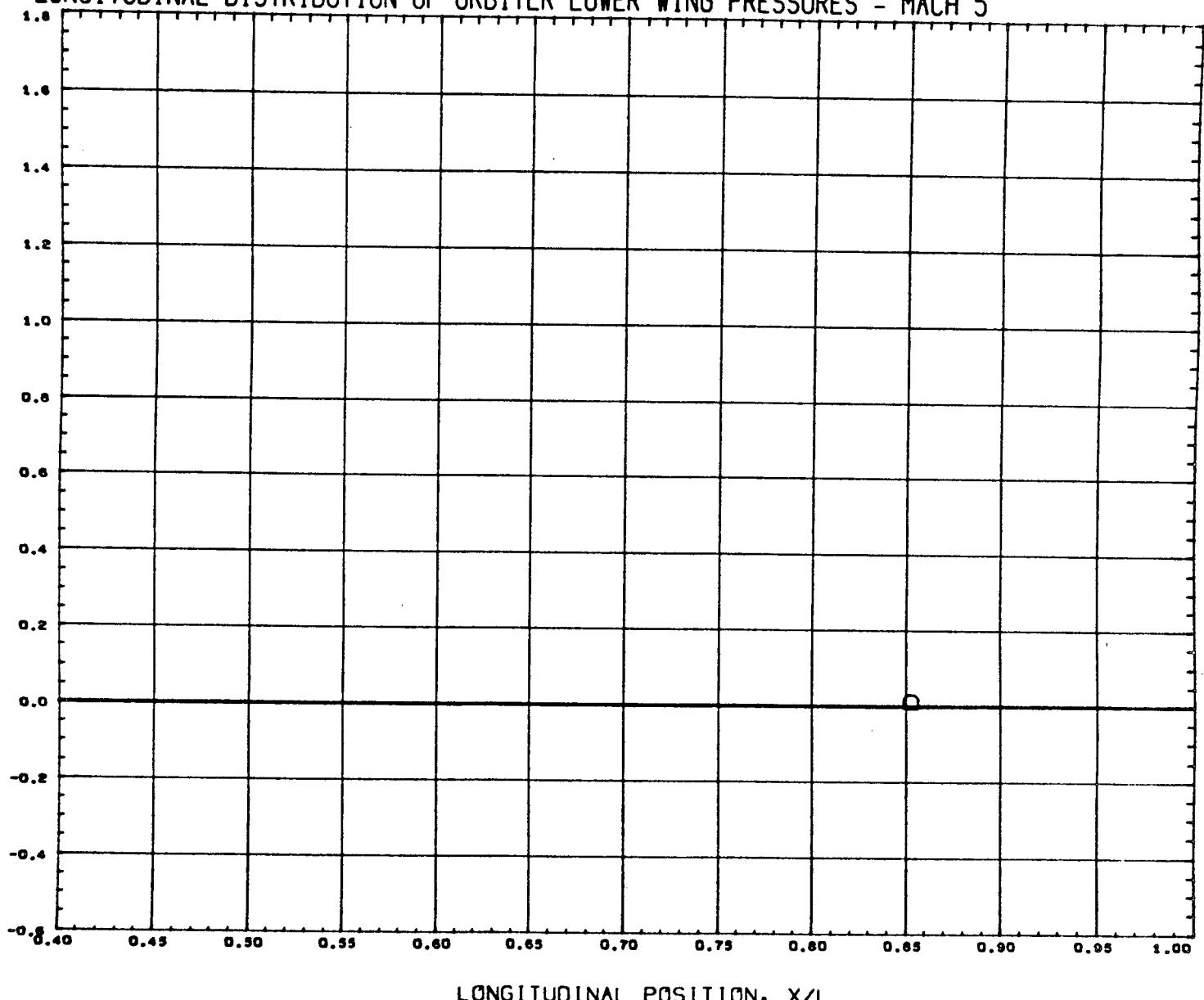
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8523•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION, X/L

SYMBOL DELTAX Y/Z DELTAZ
C 0.520 0.738 0.906

PARAMETRIC VALUES		
ALPHAS	0.037	MACH 4.940
ALPHAI	0.000	ORBPOW 50.000
BSTPOW	100.000	

REFERENCE FILE

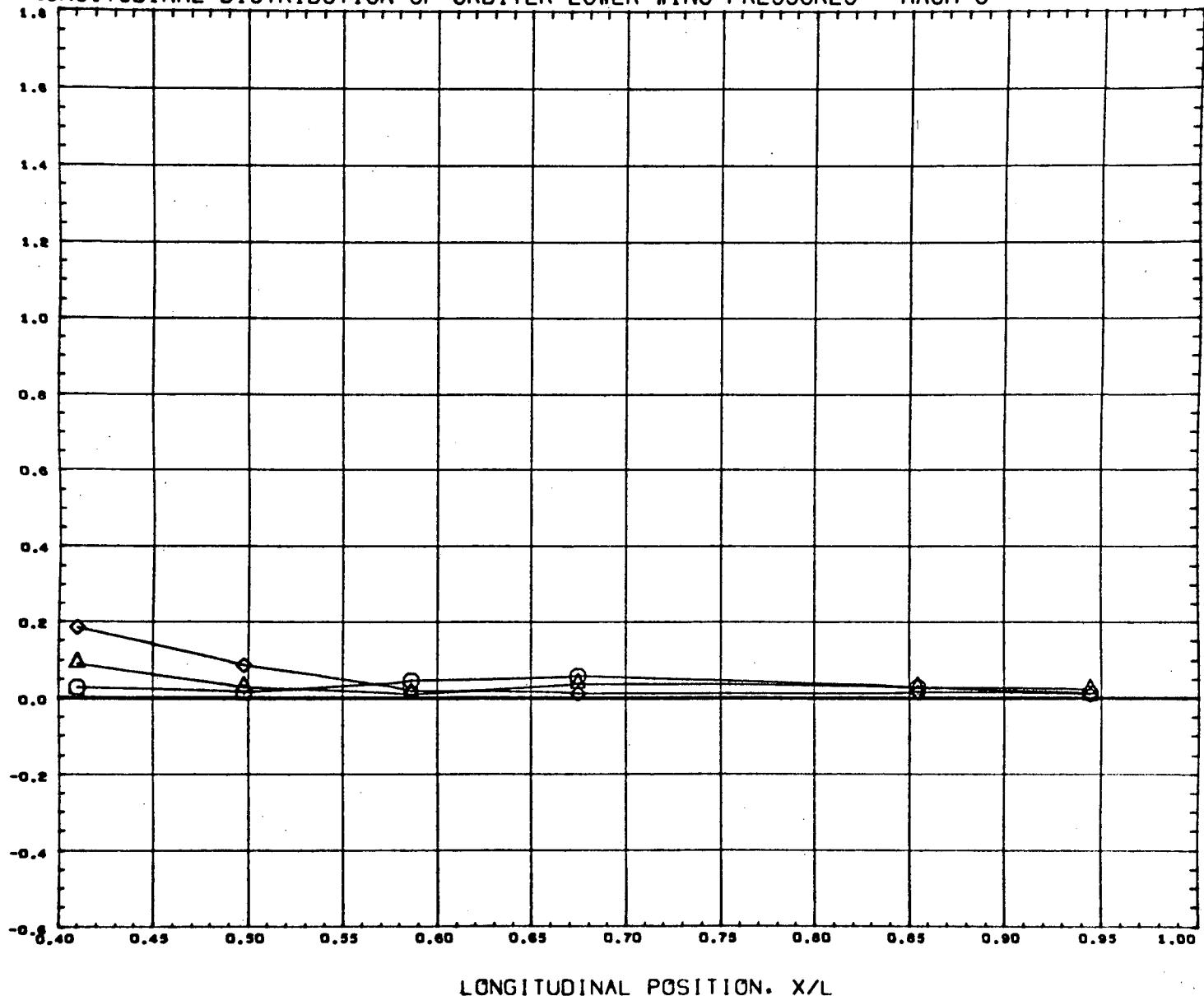
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8523•

PAGE 620

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL DELTAX Y/B DELTAZ

○	0.041	0.230	0.114
△	0.103		
◊	0.165		

PARAMETRIC VALUES

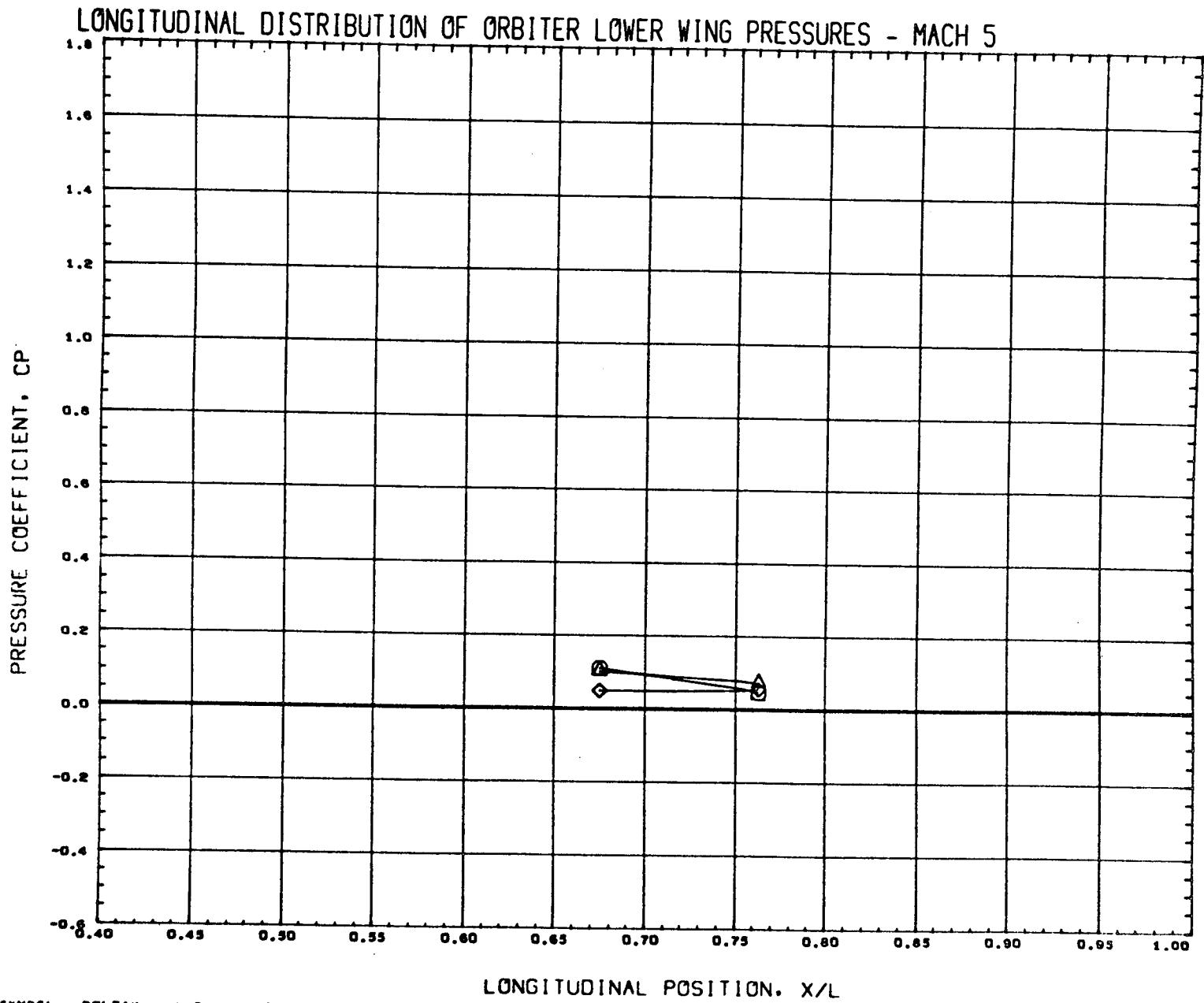
ALPHAB	5.012	MACH	4.940
ALPHAI	0.000	ORBPOW	90.000
BSTPOW	100.000		

REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8524•

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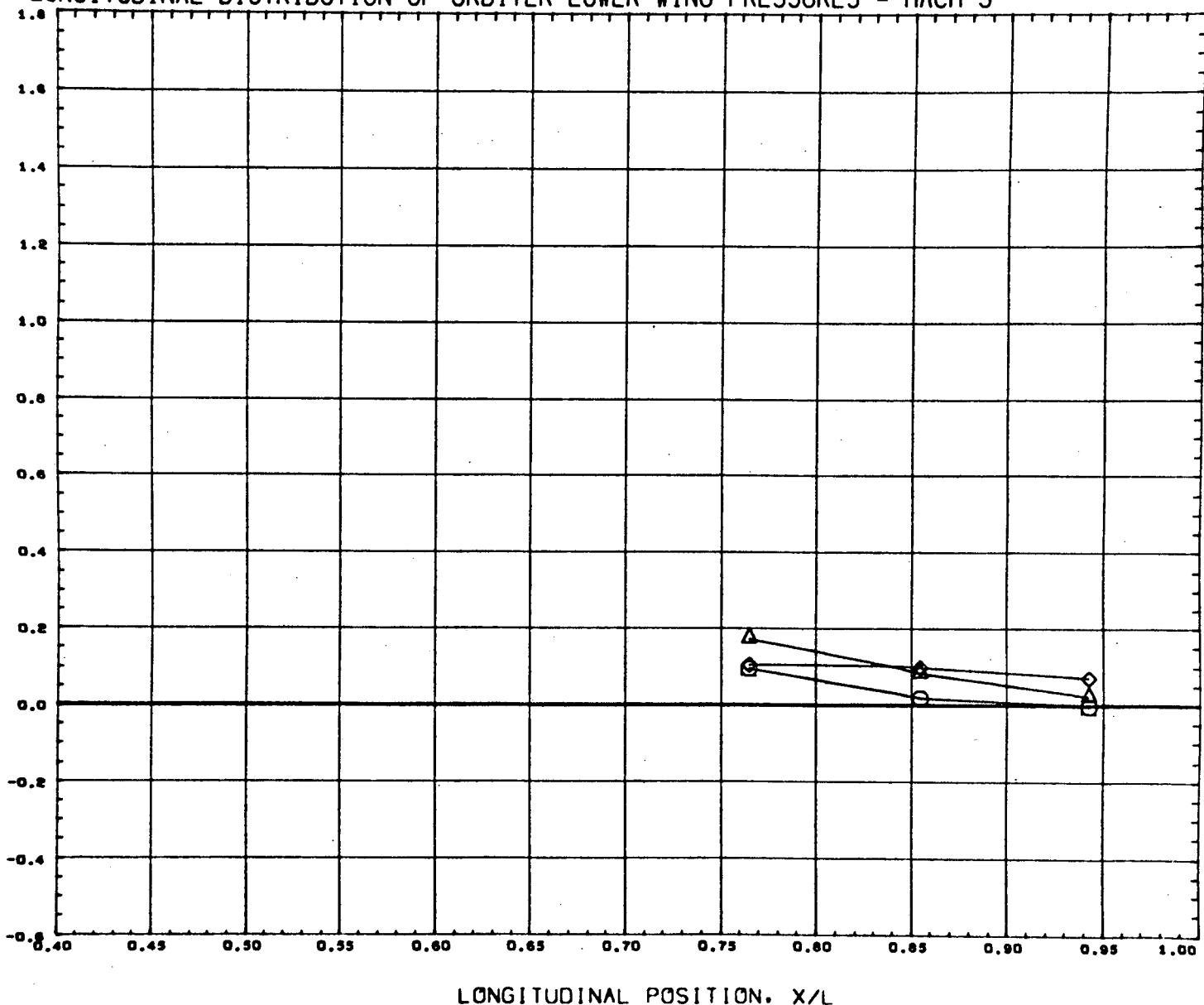
REFERENCE FILE
 AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8524•

PAGE 622

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



SYMBOL	DELTA X	T/E	DELTA Z
○	0.041	0.568	0.114
△	0.103		
◊	0.165		

PARAMETRIC VALUES			
ALPHAB	5.012	MACH	4.940
ALPHAI	0.000	ORBPOW	50,000
BSTPOW	100,000		

REFERENCE FILE

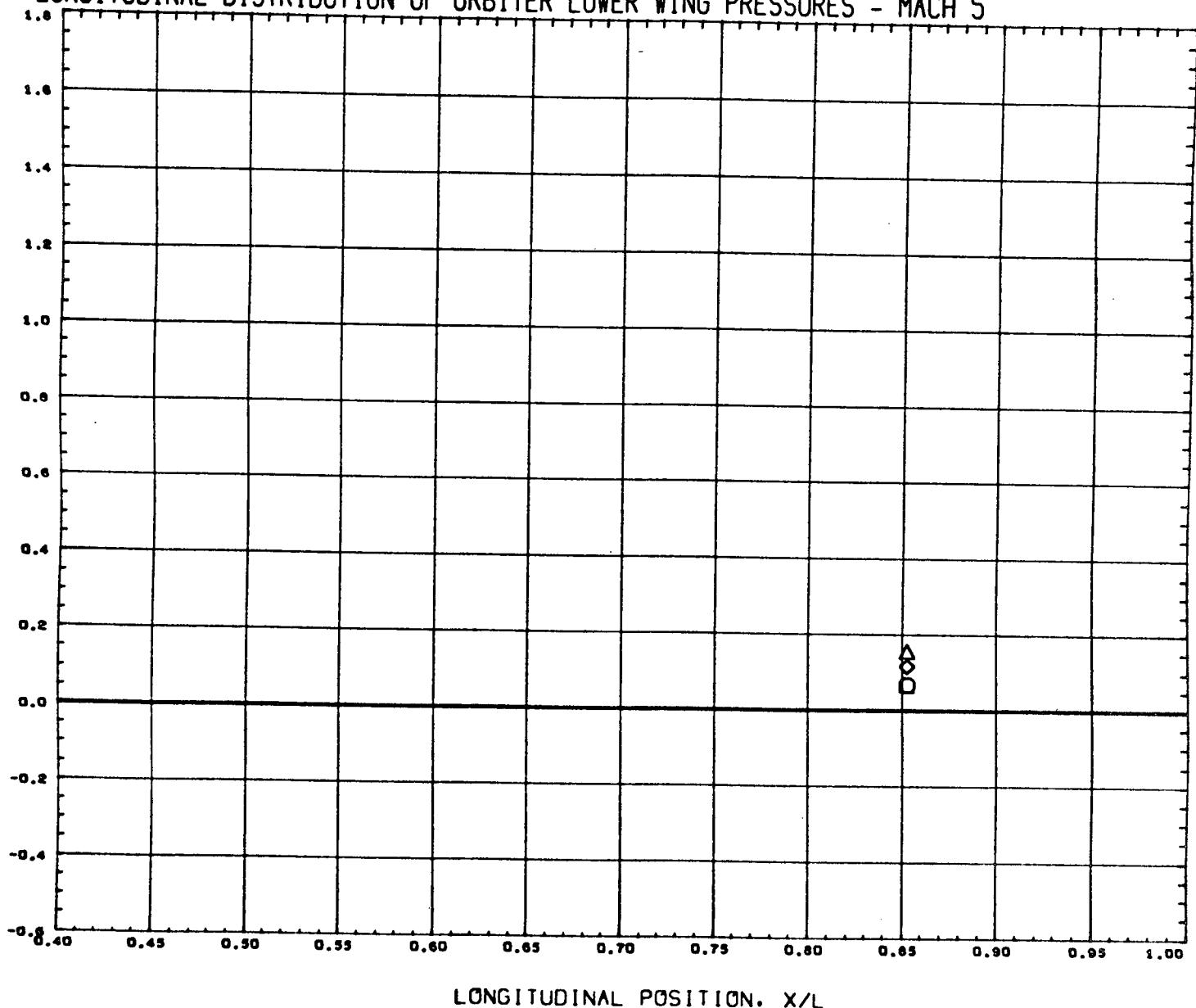
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8524•

PAGE 623

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



LONGITUDINAL POSITION. X/L

SYMBOL	DELTA X	Y/B	DELTA Z
(○)	0.041	0.730	0.114
(△)	0.103		
(◊)	0.165		

PARAMETRIC VALUES		
ALPHAB	5.012	MACH 4.940
ALPHAI	0.000	ORBPOW 50.000
BSTPOW	100.000	

REFERENCE FILE

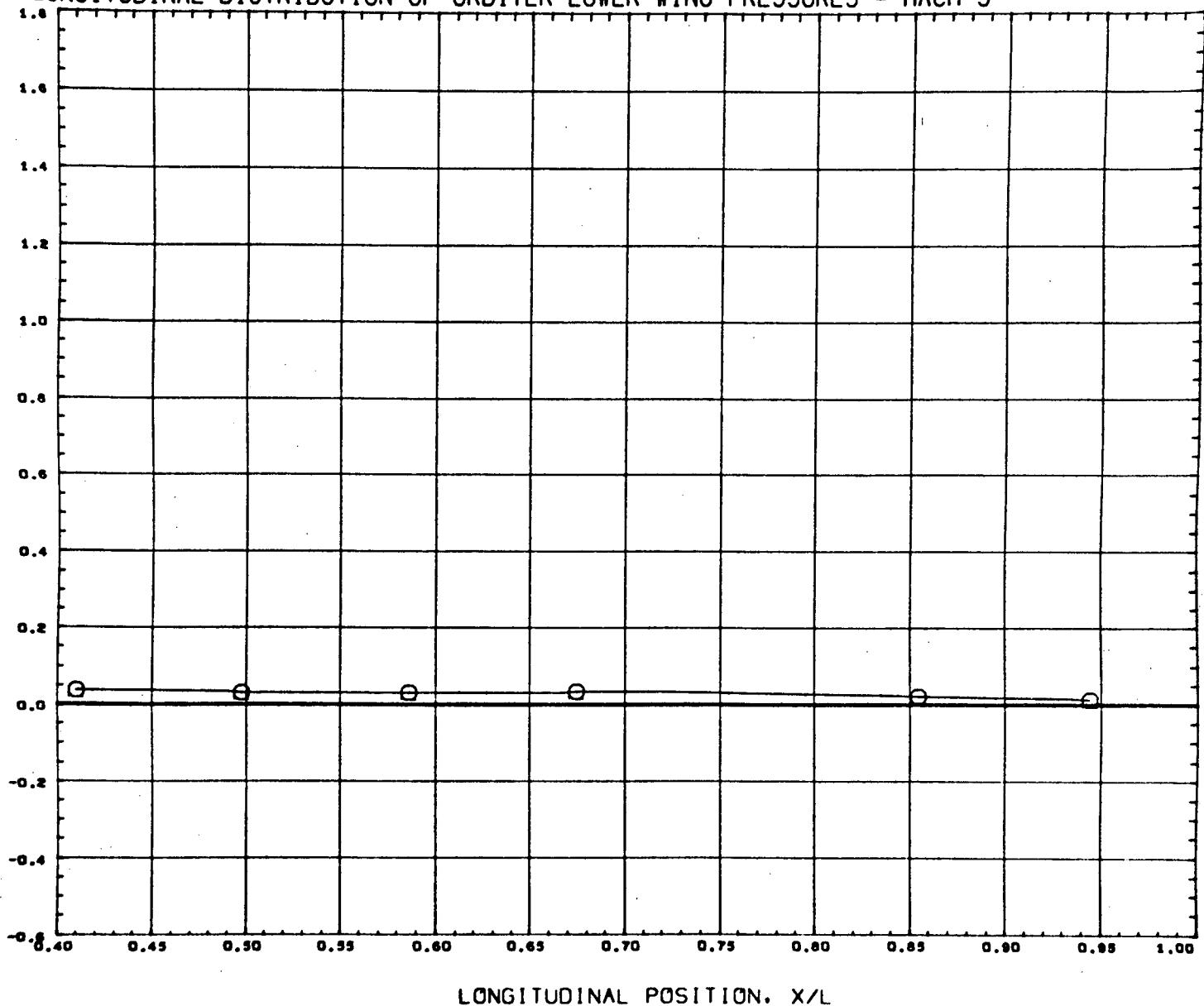
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8524•

PAGE 624

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION, X/L

SYMBOL DELTAX Y/E DELTAZ
C 0.520 0.230 0.908

PARAMETRIC VALUES	
ALPHAB	5.012
ALPHAI	0.000
BSTPOW	100.000
MACH	4.940
ORBPOW	50.000

REFERENCE FILE

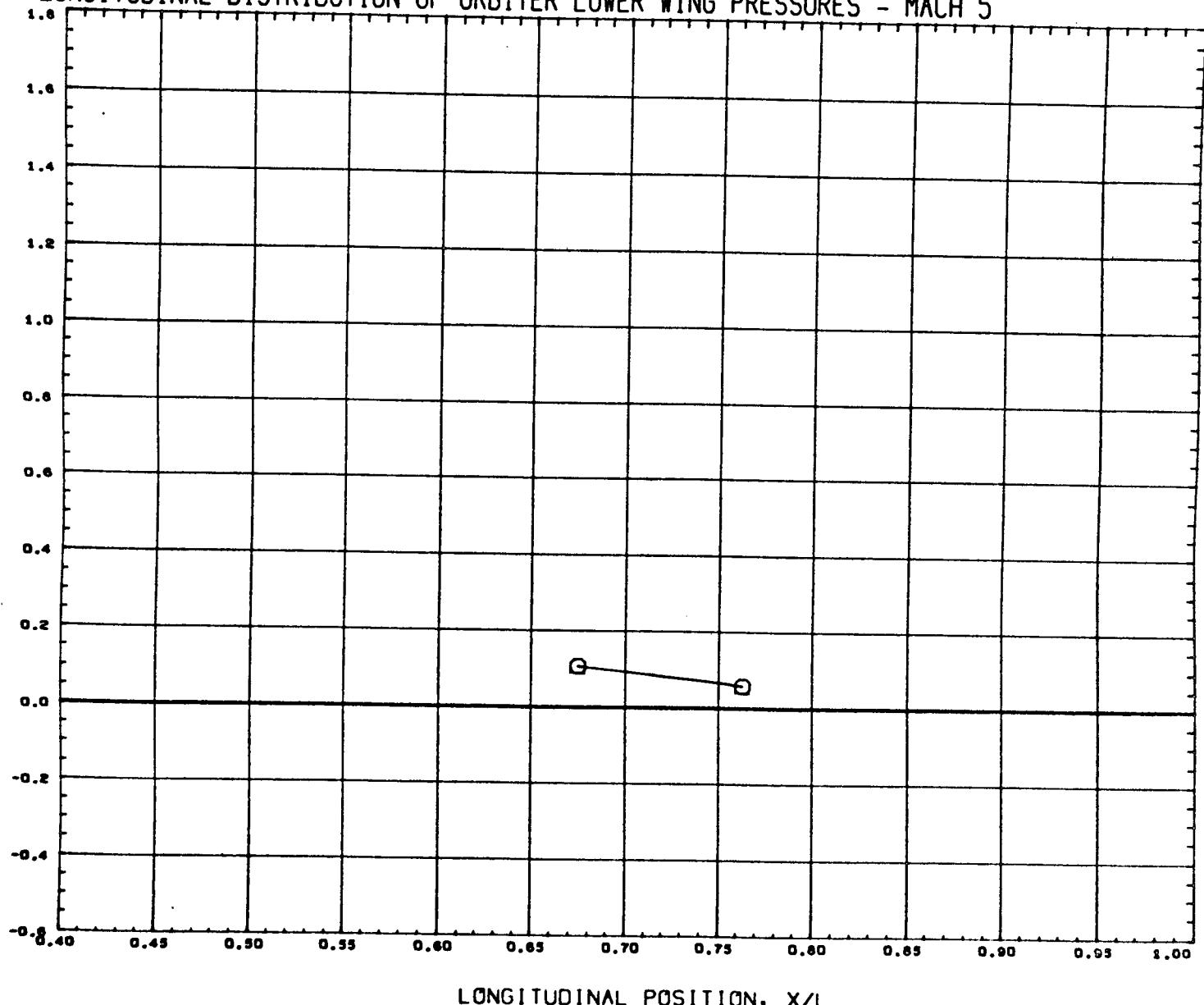
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8524•

PAGE 625

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL DELTAX T/E DELTAZ
C 0.520 0.399 0.909

LONGITUDINAL POSITION, X/L

PARAMETRIC VALUES			
ALPHAB	5.012	MACH	4.940
ALPHAI	0.000	ORBPOW	50.000
BSTPOW	100.000		

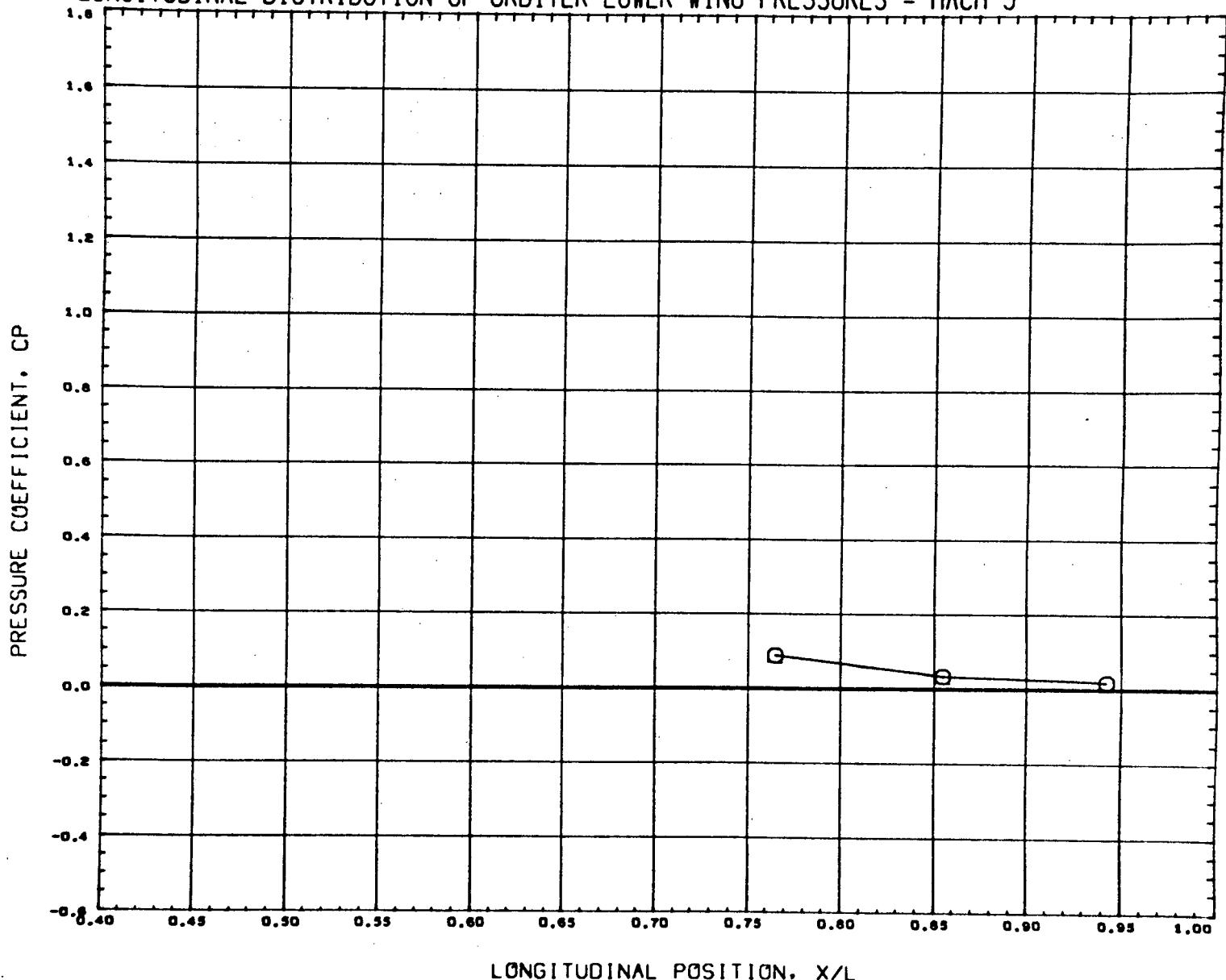
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8524•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL DELTAX Y/E DELTAZ
○ 0.520 0.568 0.908

LONGITUDINAL POSITION, X/L

PARAMETRIC VALUES			
ALPHAB	5.012	MACH	4.940
ALPHAT	0.000	ORBPOW	50.000
BSTPOW	100.000		

REFERENCE FILE

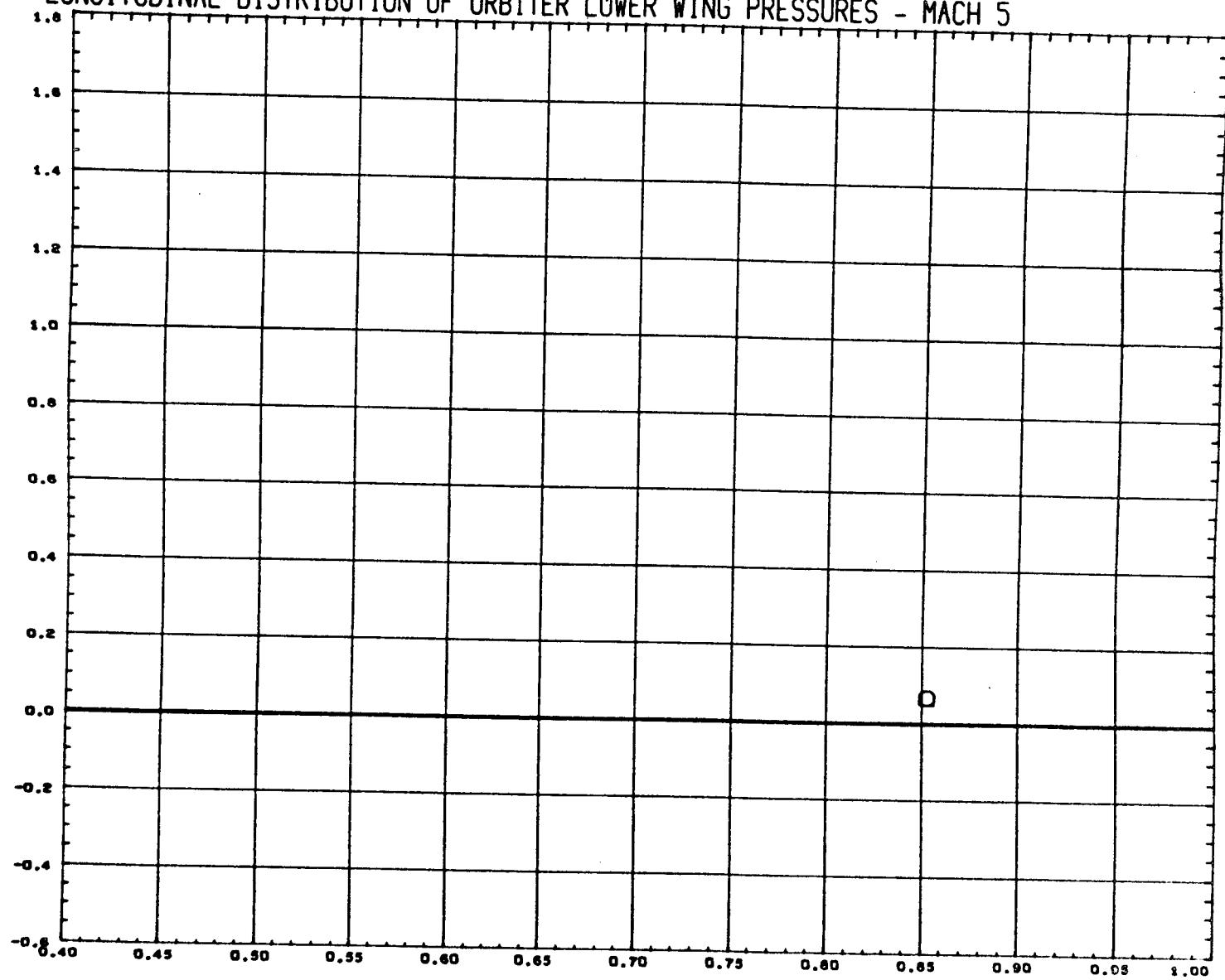
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8524•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL DELTAX Y/B DELTAZ
C 0.520 0.739 0.906

	ALPHAB	5.012	MACH	4.940
	ALPHAI	0.000	ORBPOW	50.000
	BSTPOW	100.000		

REFERENCE FILE

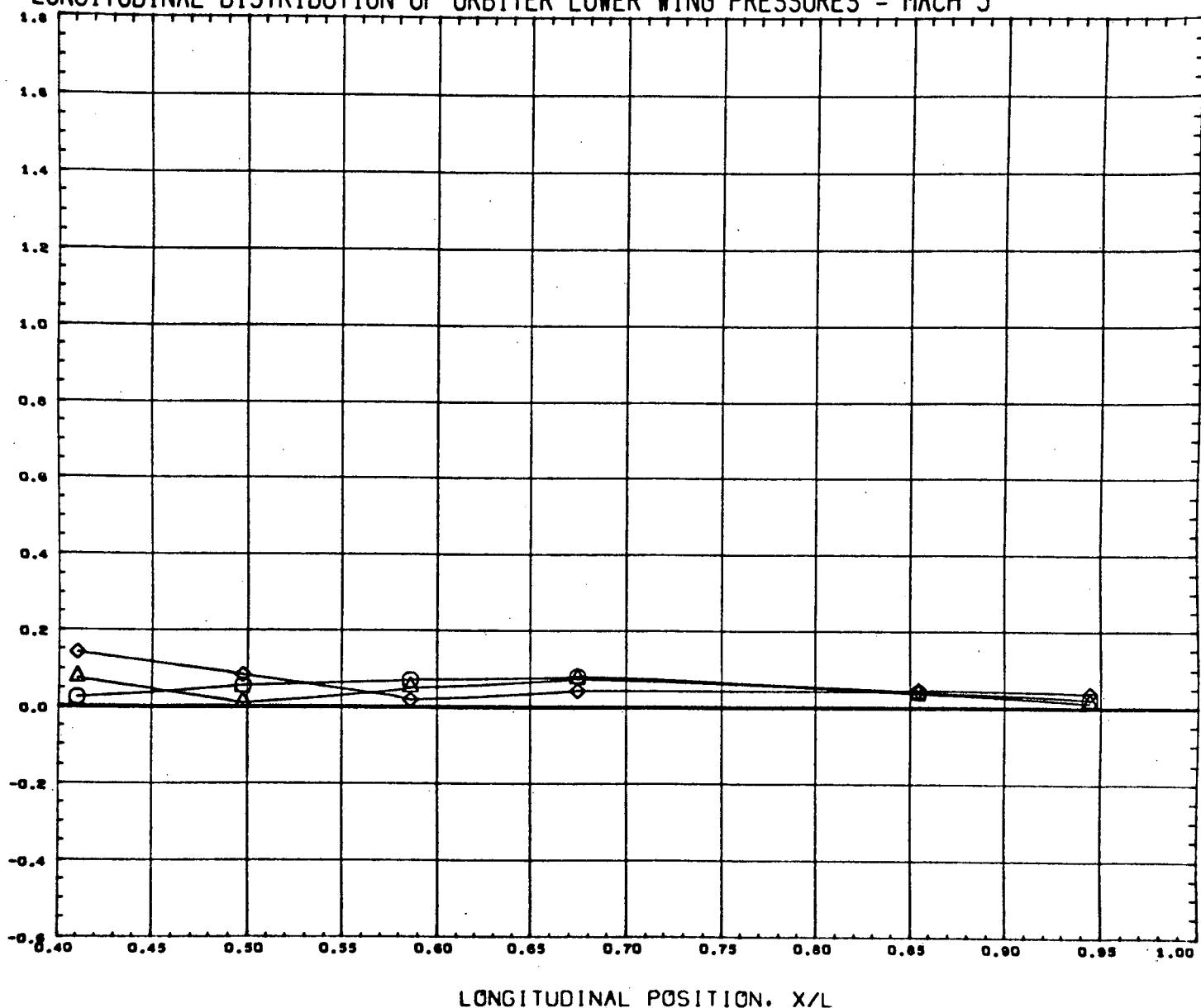
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8524•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



SYMBOL	DELTA X	Y/B	DELTA Z
△	0.041	0.230	0.114
○	0.103		
◊	0.169		

PARAMETRIC VALUES			
ALPHAB	10.042	MACH	4.940
ALPHAI	0.000	ORBPOW	50.000
BSTPOW	100.000		

REFERENCE FILE

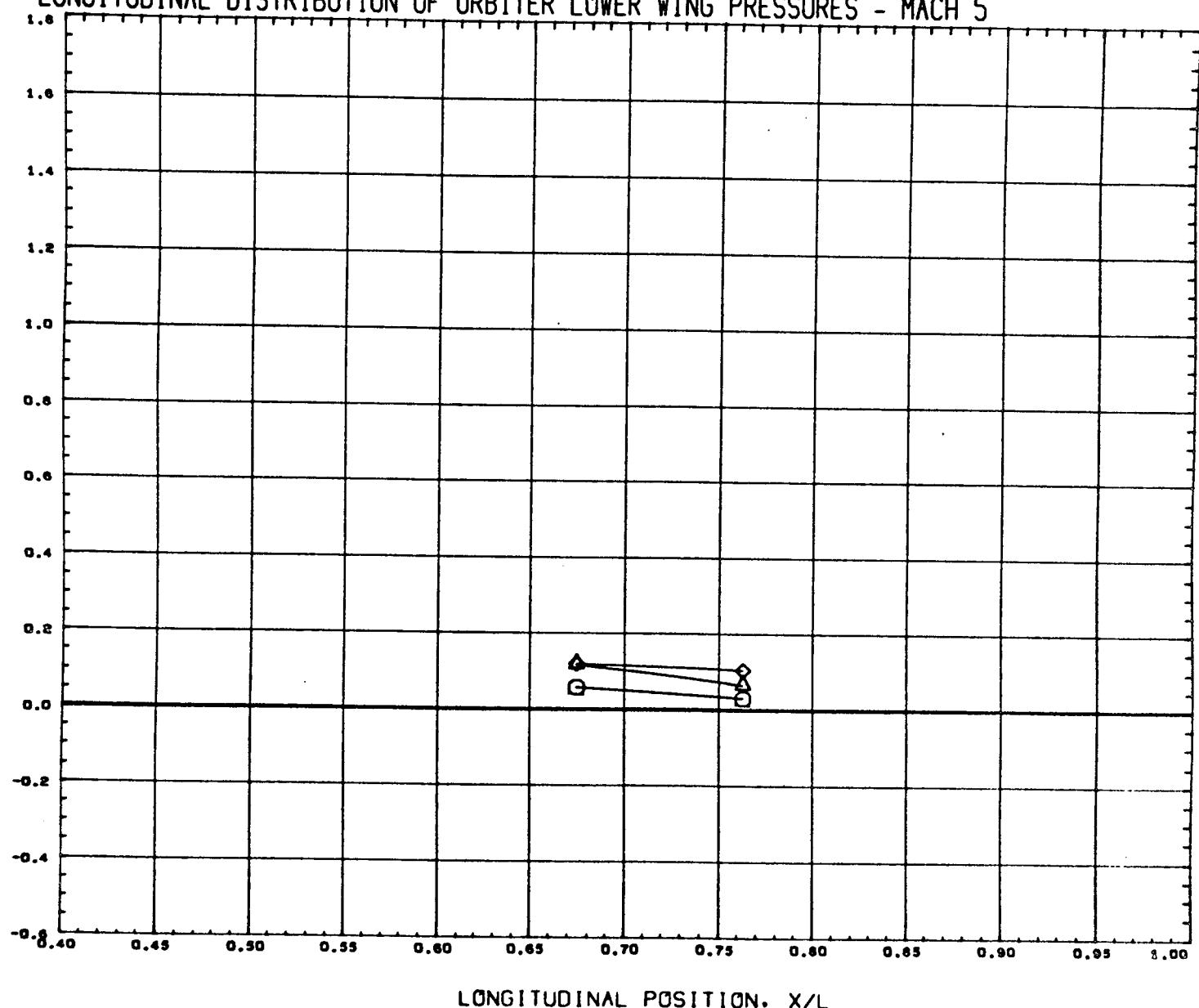
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8525•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION, X/L

SYMBOL	DELTAX	Y/E	DELTAZ
△	0.041	0.399	0.114
□	0.103		
◊	0.165		

PARAMETRIC VALUES			
ALPHAB	10.042	MACH	4.940
ALPHAI	0.000	ORBPOW	50.000
BSTPOW	100.000		

REFERENCE FILE

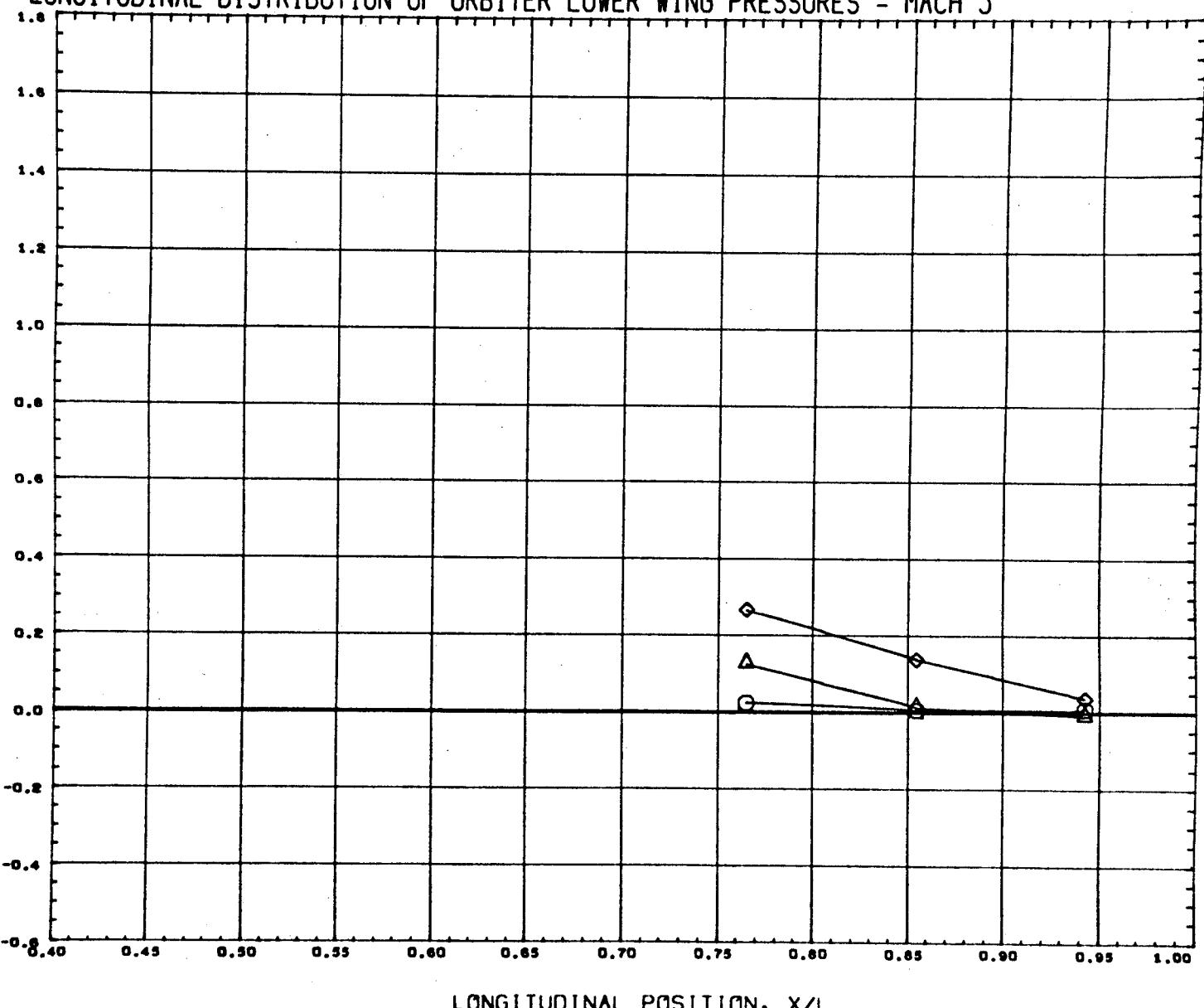
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8525•

PAGE 630

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION, X/L

SYMBOL	DELTAX	T/B	DELTAZ
○	0.041	0.968	0.114
△	0.103		
◊	0.165		

PARAMETRIC VALUES			
ALPHAB	10.042	MACH	4.940
ALPHAI	0.000	ORBPOW	50.000
BSTPOW	100.000		

REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

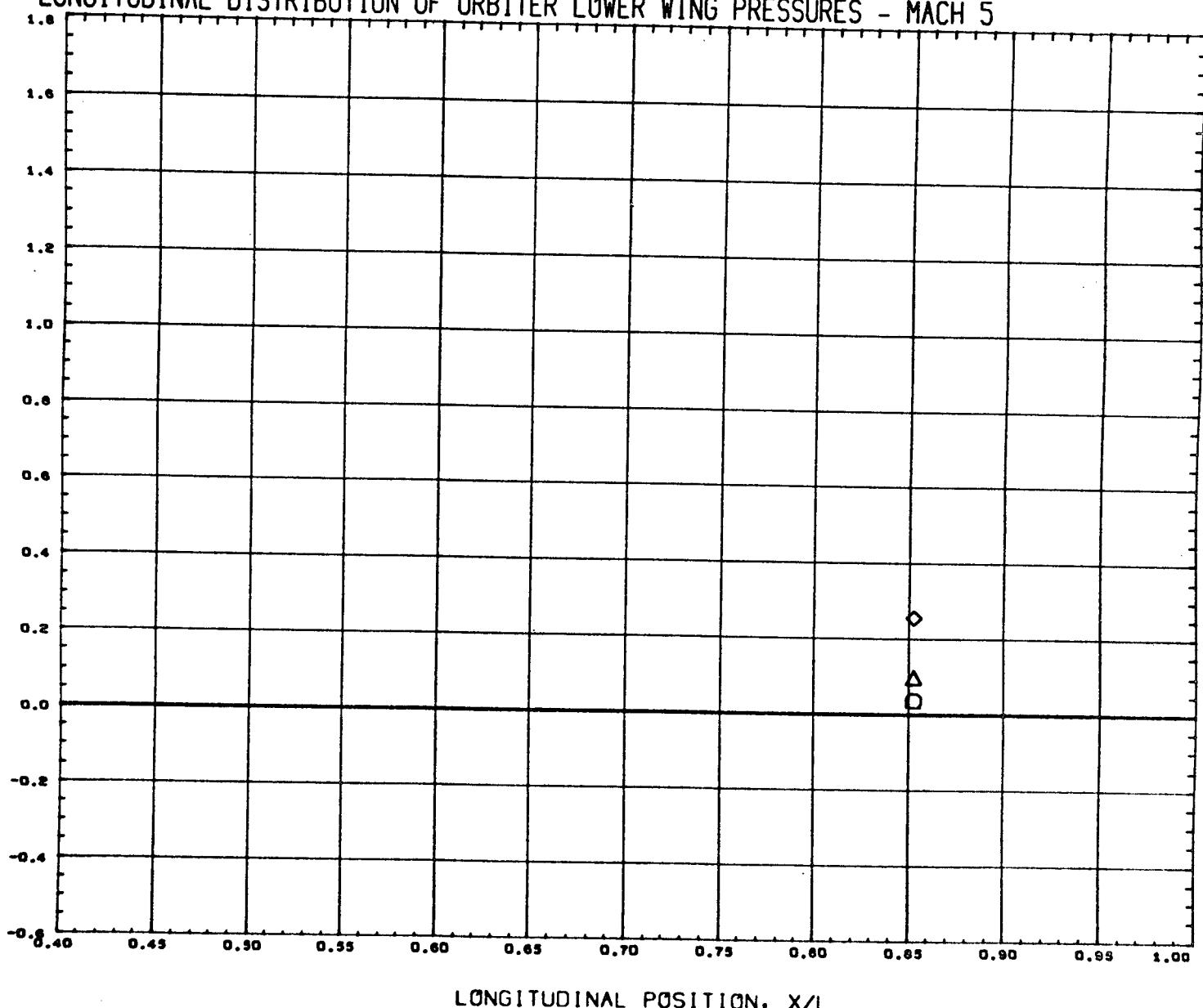
•HT8525•

PAGE 631

C.4

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL	DELTA X	T/8	DELTA Z
Δ	0.041	0.738	0.114
Δ	0.103		
\diamond	0.165		

PARAMETRIC VALUES			
ALPHAB	10.042	MACH	4.940
ALPHAI	0.000	ORBPOW	50.000
BSTPOW	100.000		

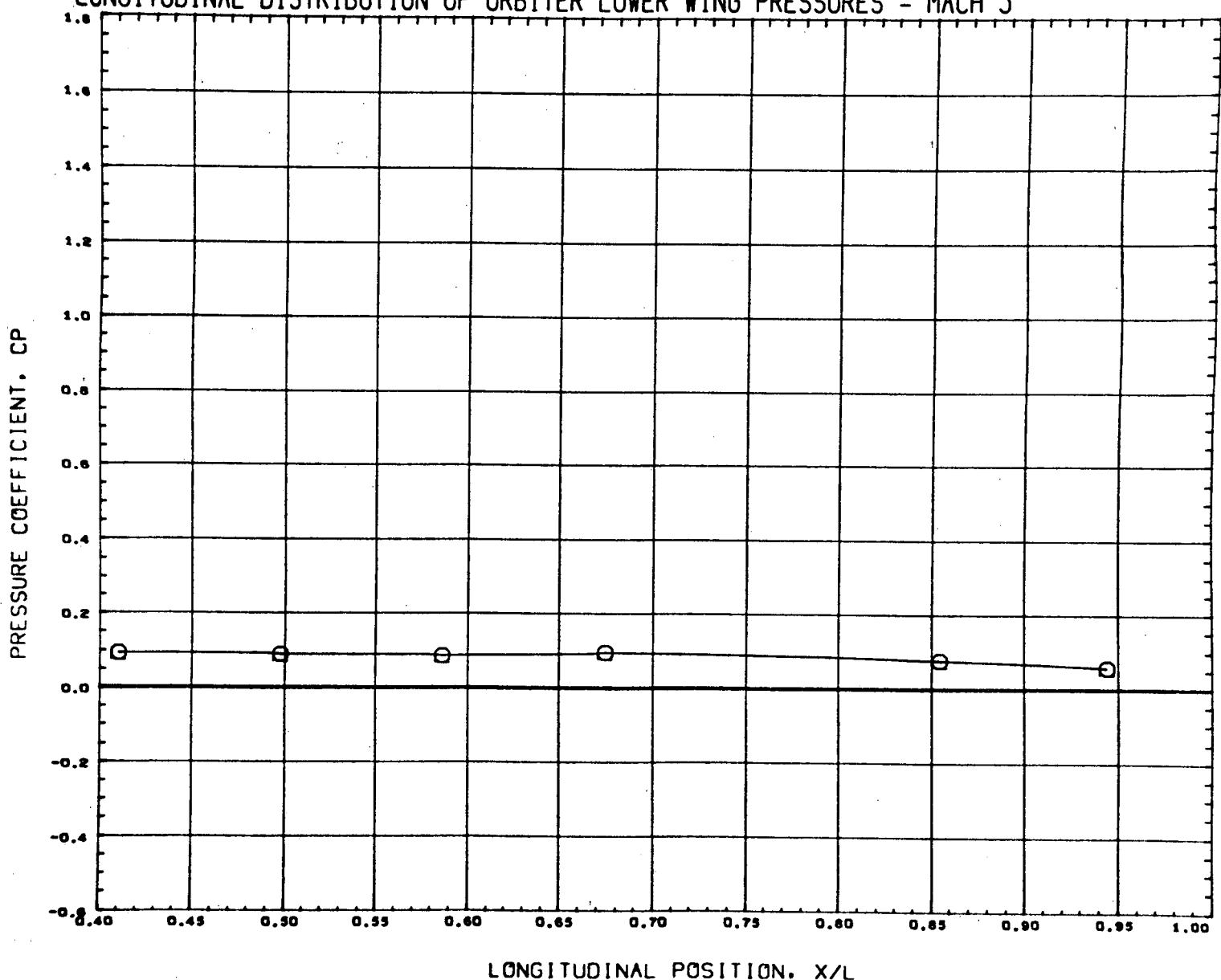
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8525•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL DELTAX T/B DELTAZ
C 0.520 0.230 0.908

PARAMETRIC VALUES			
ALPHAB	10.042	MACH	4.940
ALPHAT	0.000	ORBPOW	50.000
BSTPOW	100.000		

REFERENCE FILE

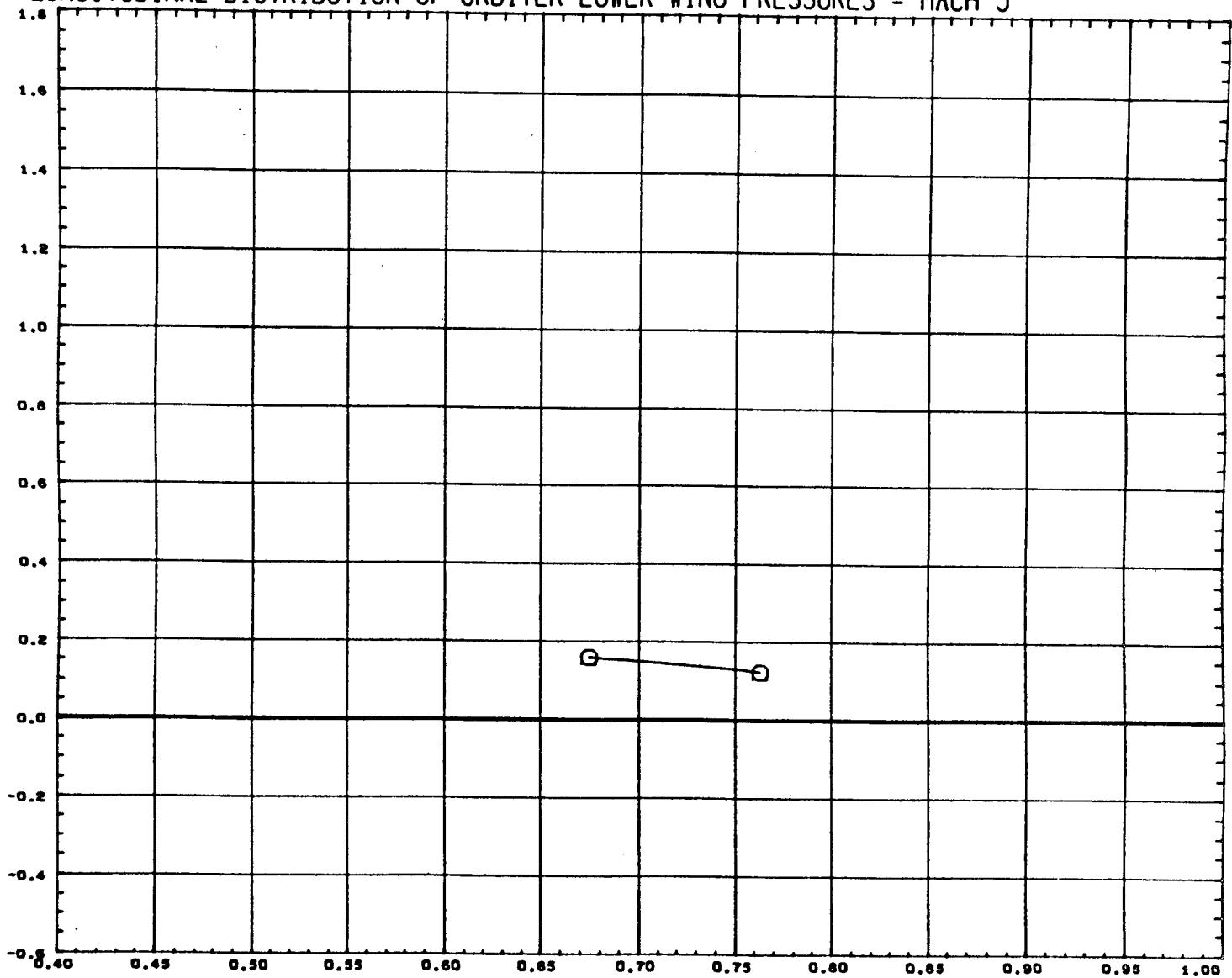
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8525•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION, X/L

SYMBOL DELTAX Y/E DELTAZ
 C 0.520 0.399 0.909

PARAMETRIC VALUES			
ALPHAB	10.042	MACH	4.940
ALPHAT	0.000	ORBPOW	50.000
BSTPOW	100.000		

REFERENCE FILE

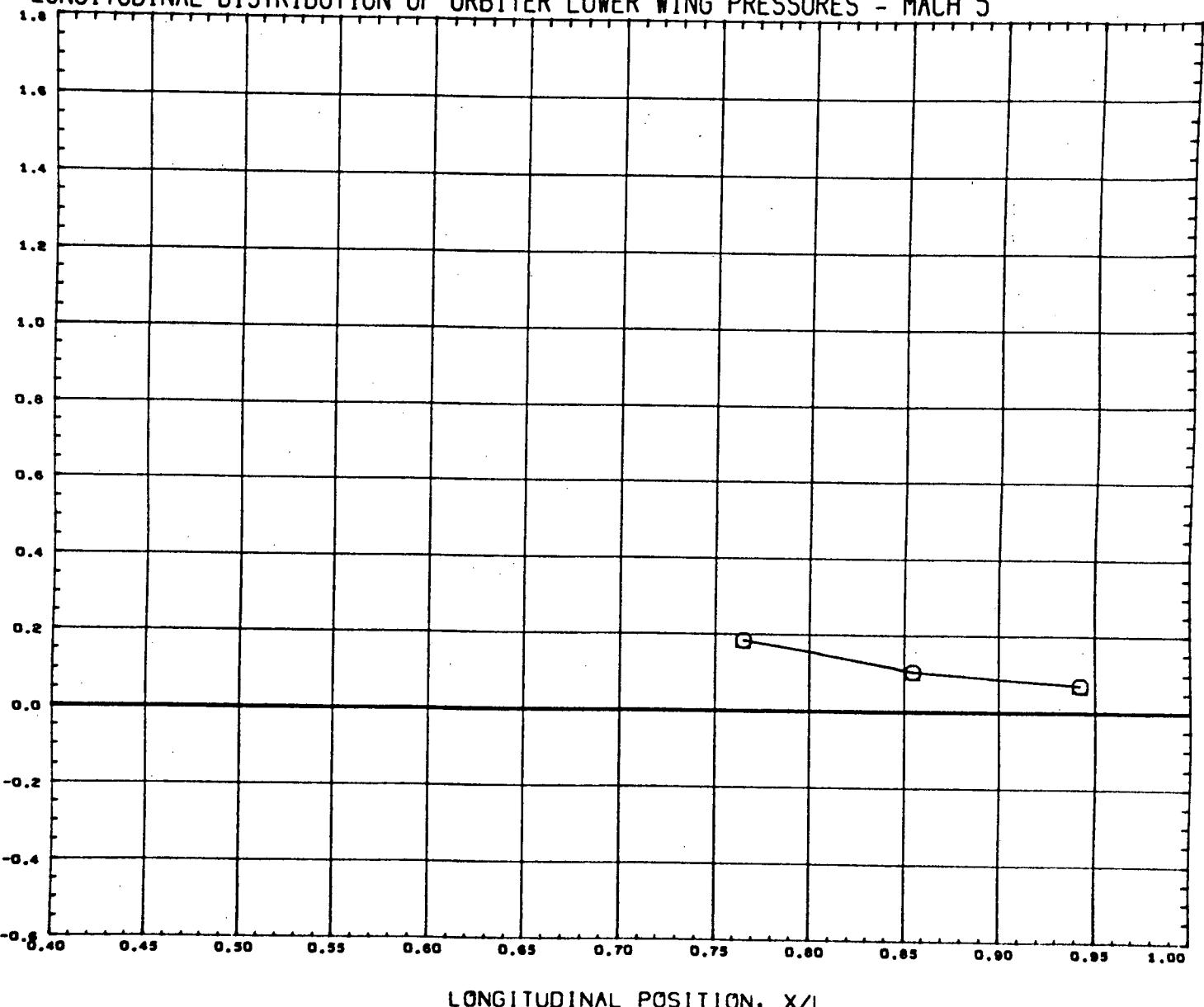
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8525•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



LONGITUDINAL POSITION. X/L

SYMBOL DELTAX T/B DELTAZ
C 0.520 0.569 0.909

PARAMETRIC VALUES			
ALPHAB	10.042	MACH	4.940
ALPHAI	0.000	ORBPOW	50.000
BSTPOW	100.000		

REFERENCE FILE

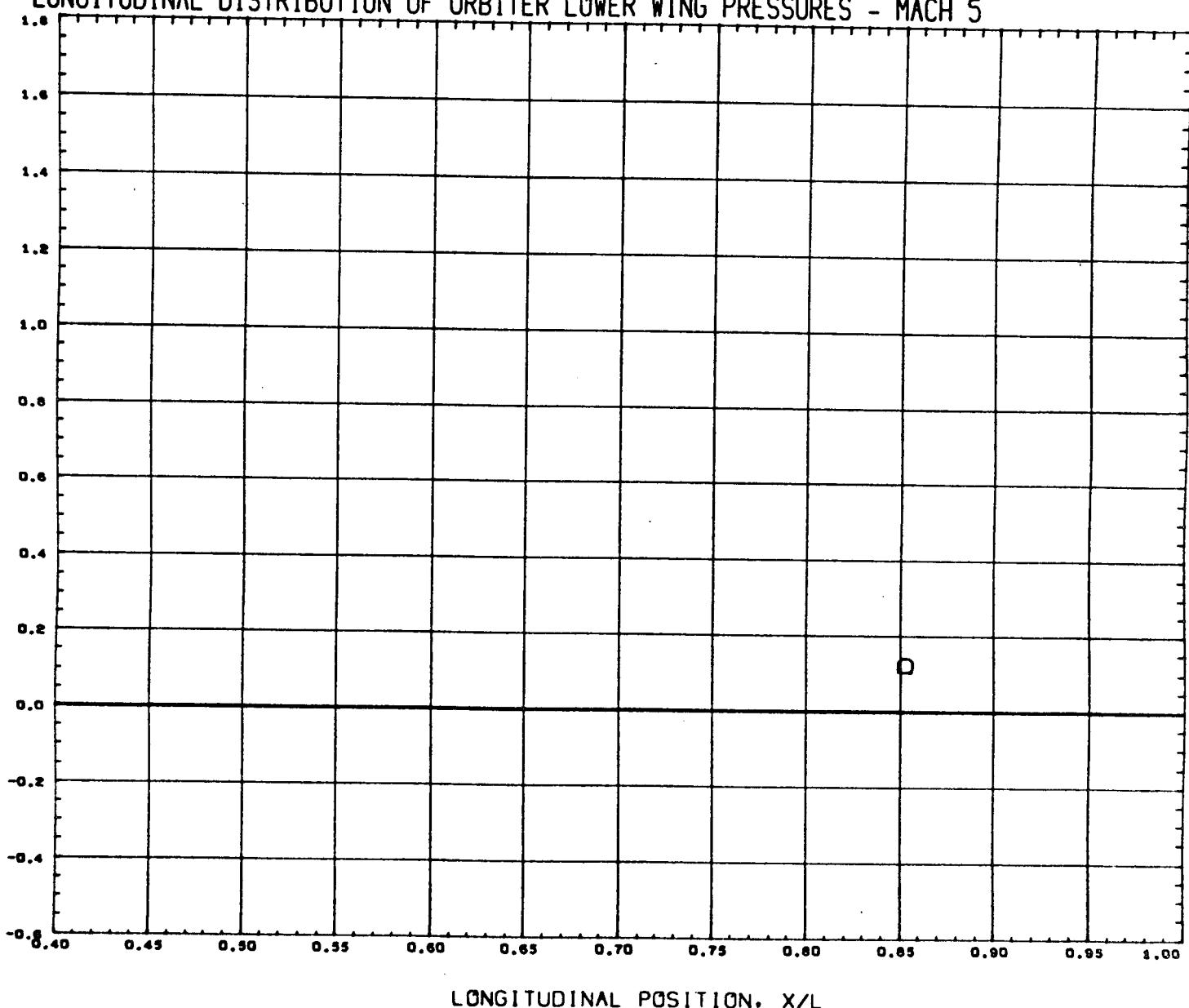
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8525•

PAGE 635

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



SYMBOL DELTAX Y/B DELTAZ
 \square 0.520 0.736 0.908

PARAMETRIC VALUES			
ALPHAB	10.042	MACH	4.940
ALPHAI	0.000	ORBPOW	50.000
BSTPOW	100.000		

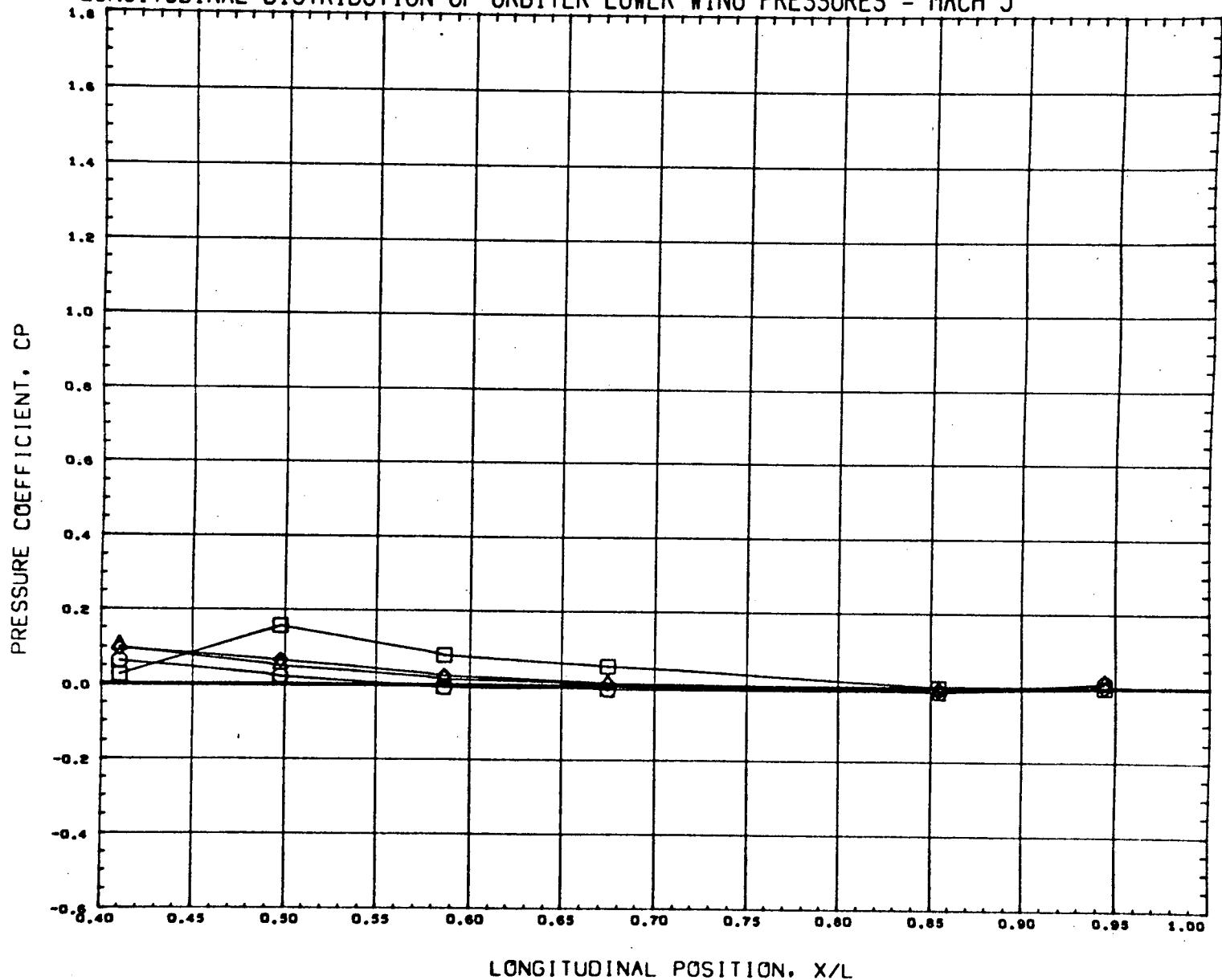
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8525•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL DELTAX Y/B DELTAZ
 □ 0.041 0.230 0.114
 ◇ 0.103 0.169 0.114
 ◆ 0.169 0.350 0.114

PARAMETRIC VALUES
 ALPHAB = 9.918 MACH = 4.940
 ALPHAI = 0.000 ORBPOW = 100.000
 BSTPOW = 50.000

REFERENCE FILE

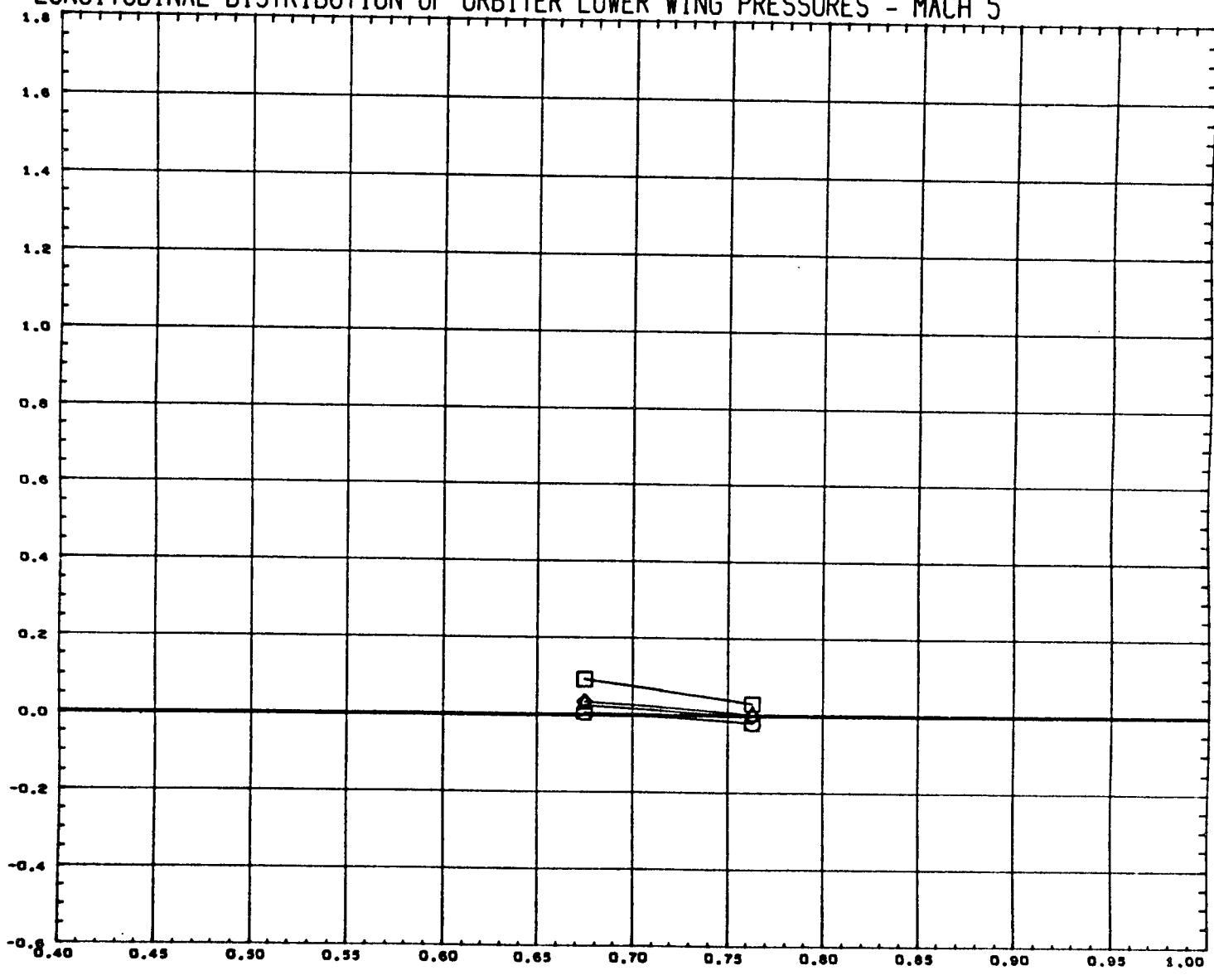
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8531•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	T/B	DELTA Z
C	0.041	0.399	0.114
△	0.103		
◊	0.165		
□	0.350		

PARAMETRIC VALUES			
ALPHAB	- 9.918	MACH	4.940
ALPHAI	0.000	ORBPOW	100.000
BSTPOW	50.000		

REFERENCE FILE

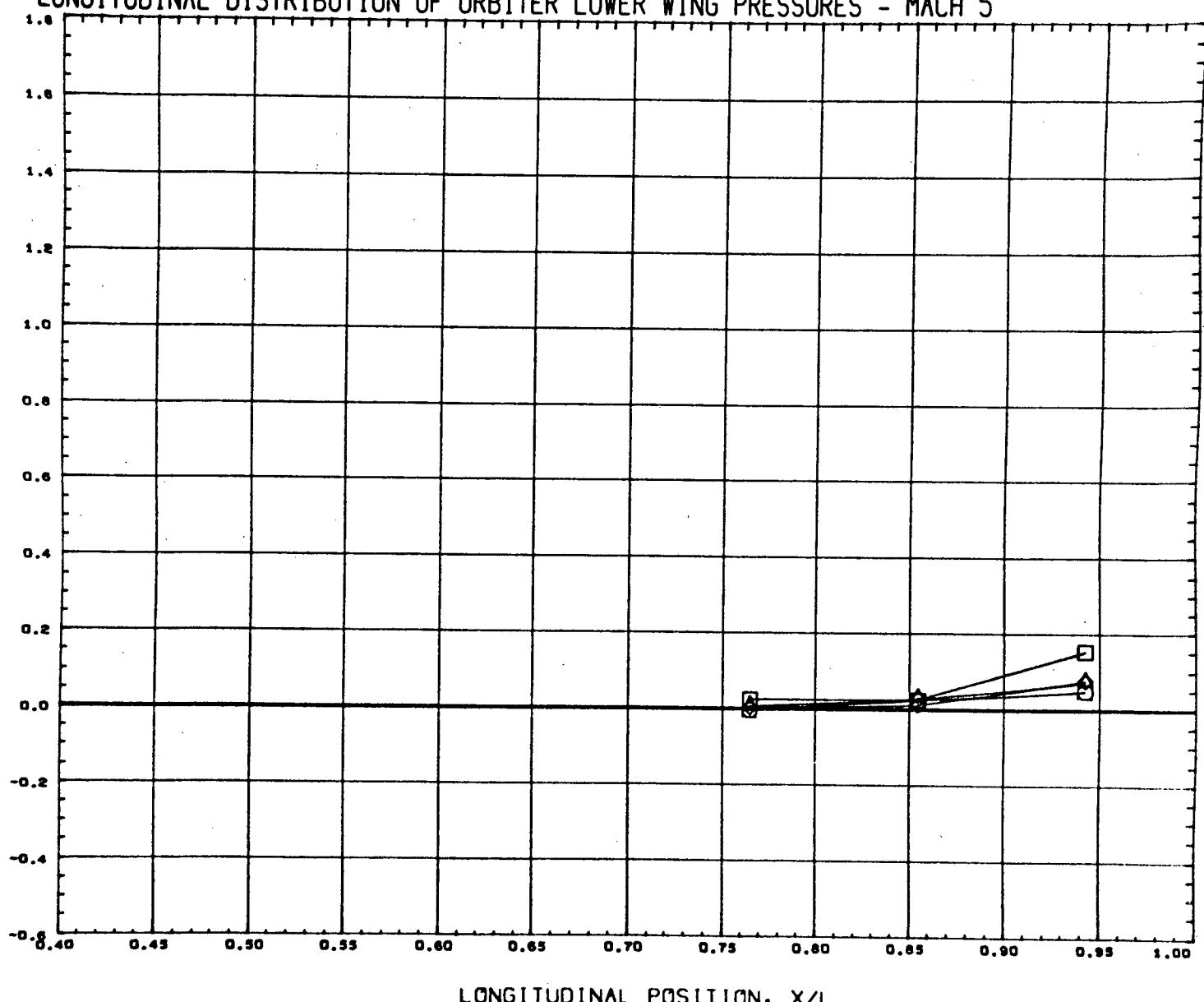
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8531•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	T/B	DELTA Z
○	0.041	0.568	0.114
△	0.103		
◊	0.165		
□	0.350		

PARAMETRIC VALUES			
ALPHAB	- 9.918	MACH	4.940
ALPHAI	0.000	ORBPOW	100.000
BSTPOW	50.000		

REFERENCE FILE

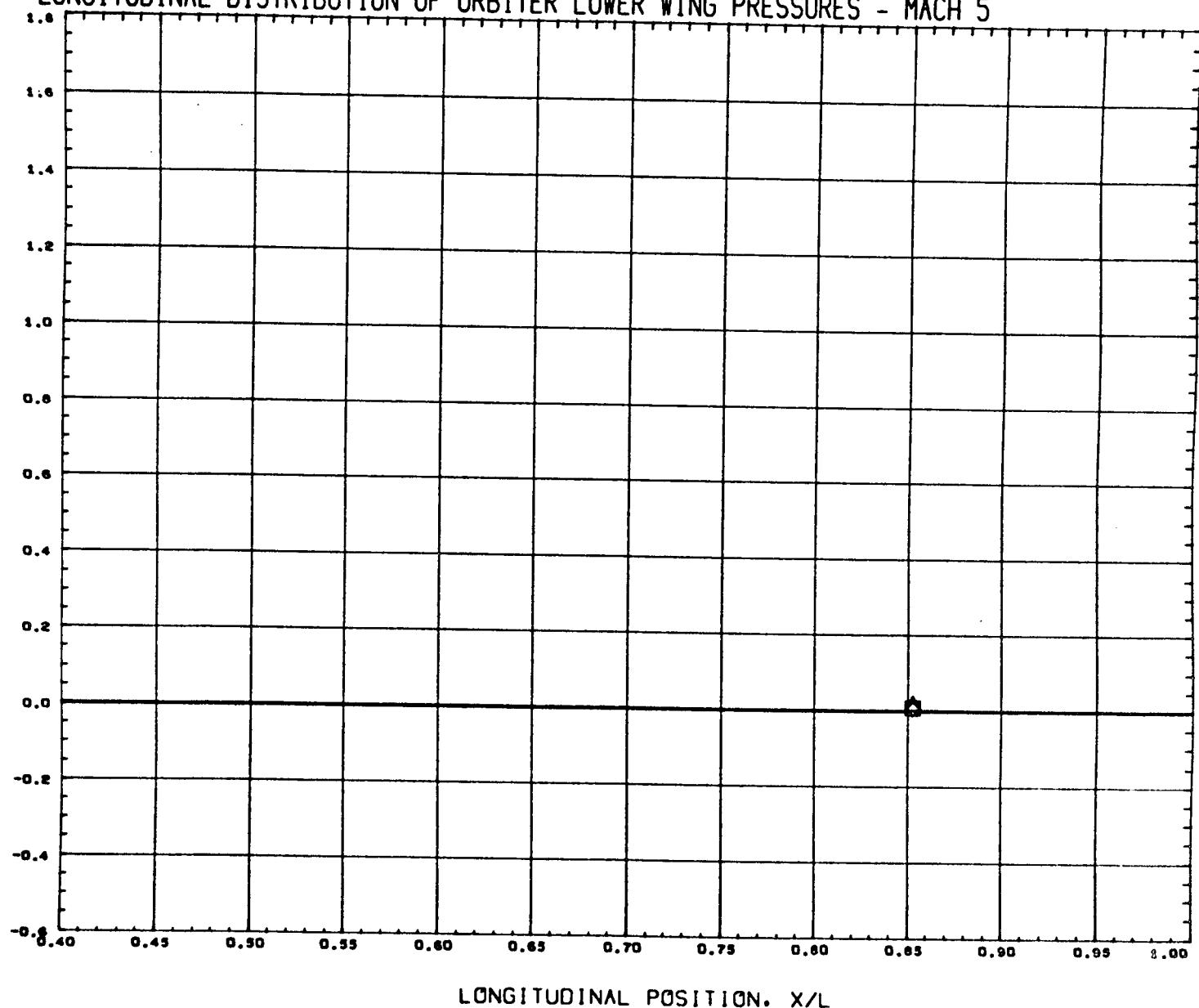
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8531•

PAGE 639

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
Δ	0.041	0.738	0.114
\diamond	0.103		
\square	0.165		
	0.350		

		MACH	
ALPHAB	-	9.918	4.940
ALPHAI		0.000	ORBPOW 100.000
BSTPOW		50.000	

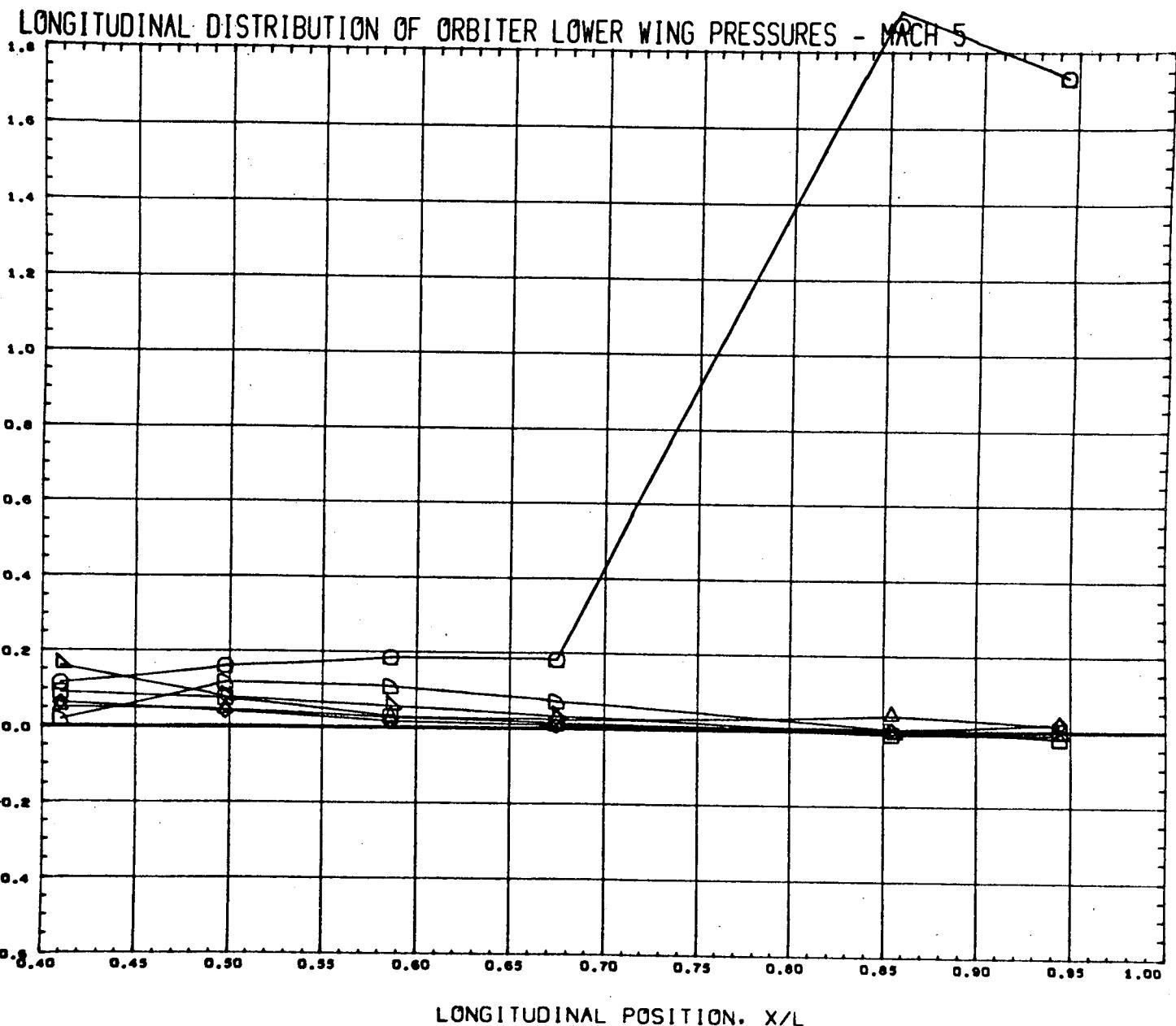
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8531•

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PRESSURE COEFFICIENT, CP



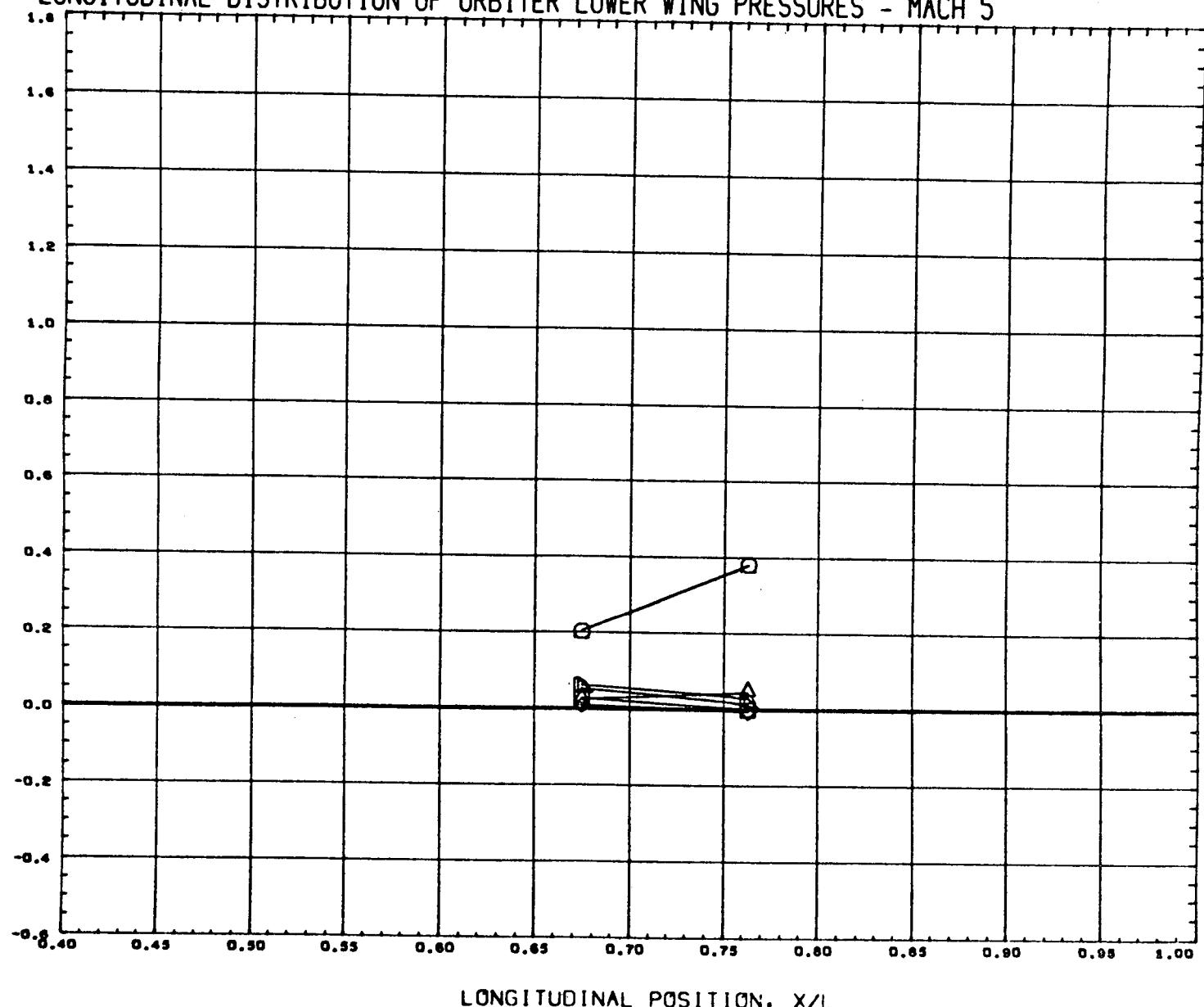
SYMBOL	DELTA X	Y/B	DELTA Z
-	0.390	0.230	0.120
-	0.143		
-	0.020		
0.103			
0.227			
0.350			

REFERENCE FILE

PARAMETRIC VALUES		
ALPHAB	- 9.916	MACH 4.940
ALPHAI	0.000	ORBPOW 100.000
BSTPOW	50.000	

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



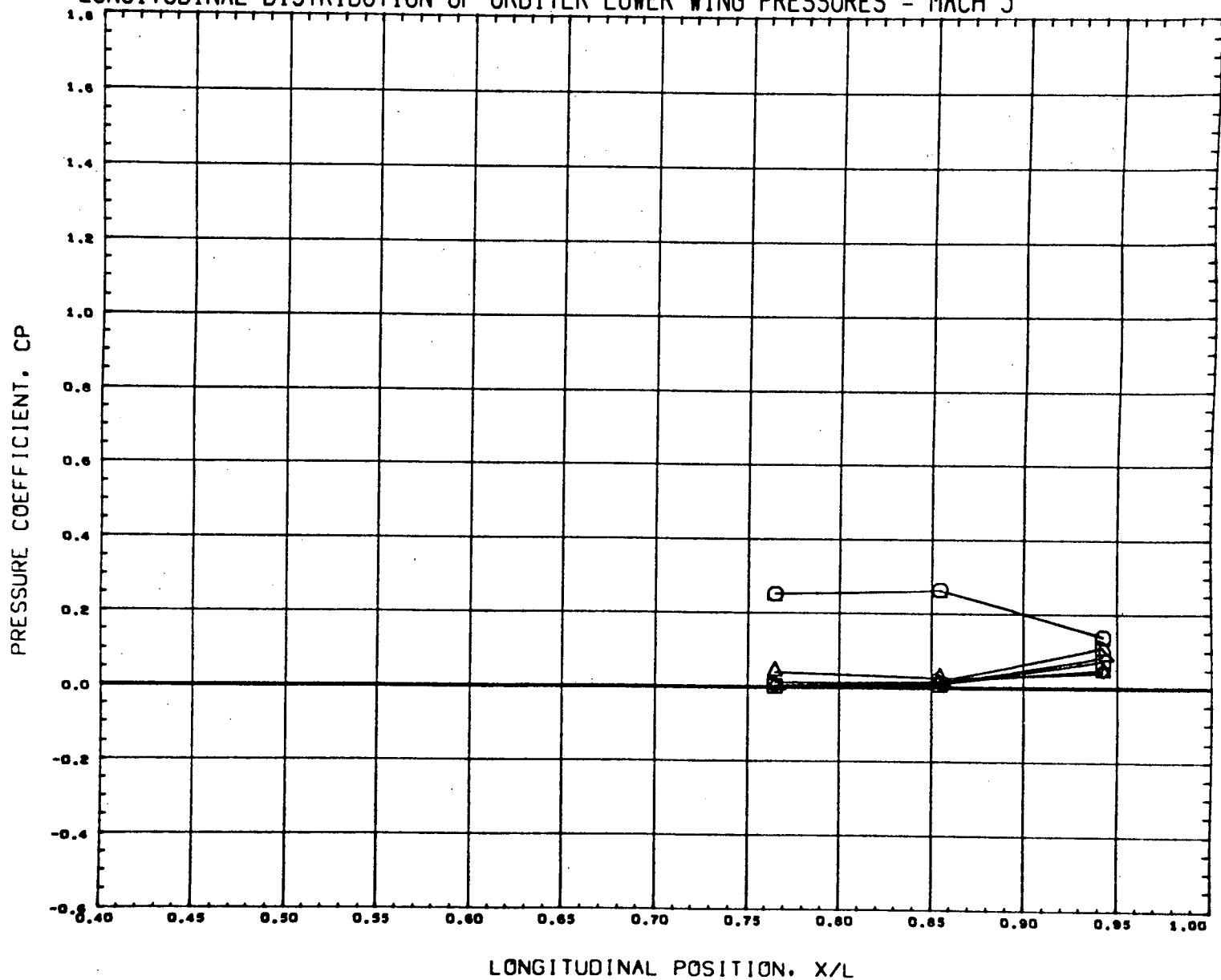
LONGITUDINAL POSITION. X/L

SYMBOL	DELTA X	T/8	DELTA Z
-	0.390	0.399	0.120
-	0.143		
-	0.020		
-	0.103		
-	0.227		
-	0.350		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	-	9.918	MACH
ALPHAT	-	0.000	CRSHOW
BSTPOW	-	50.000	100.000

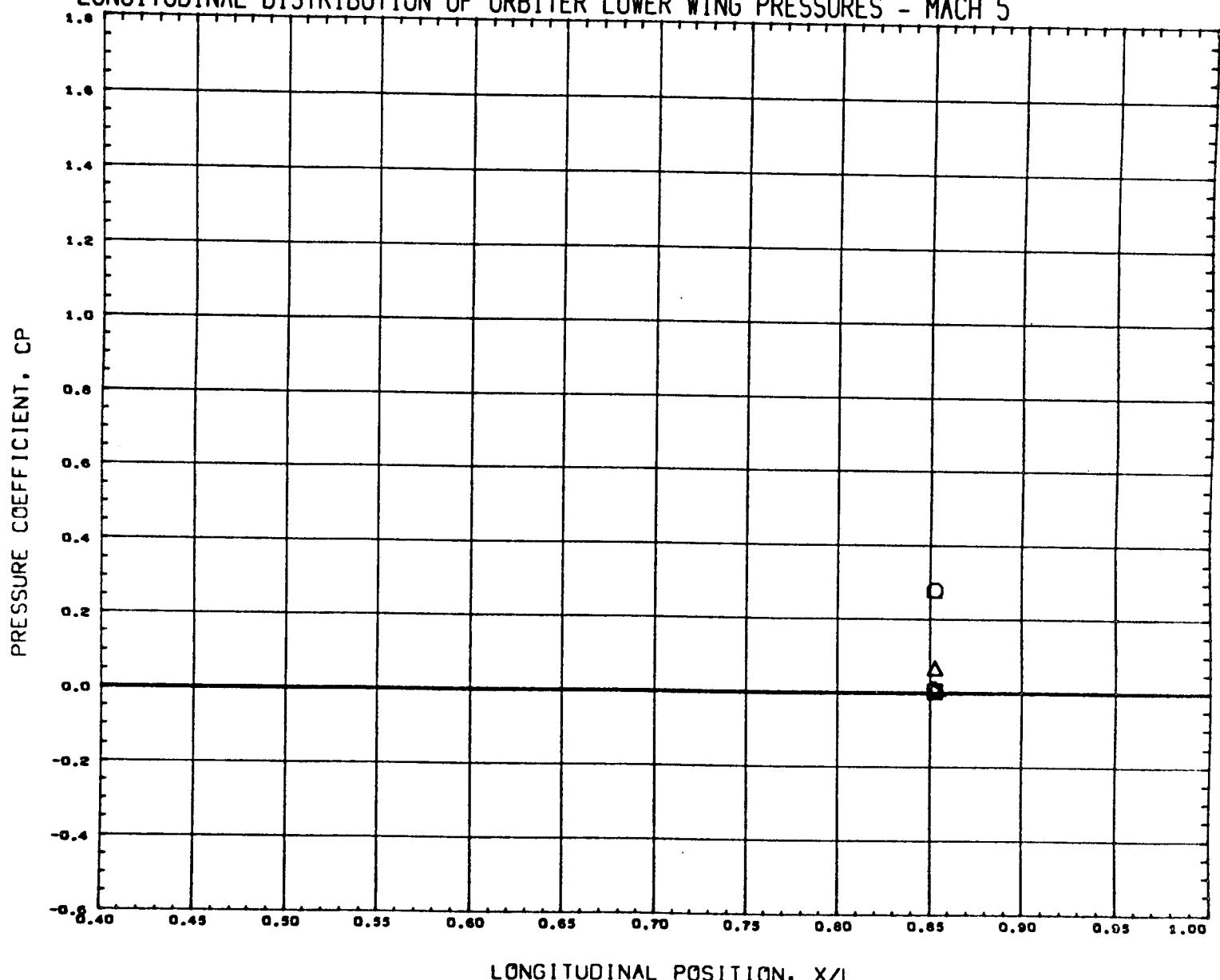
LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL DELTAX Y/B DELTAZ
 - 0.390 0.569 0.120
 - 0.143
 - 0.020
 0.163
 0.227
 0.350 REFERENCE FILE

PARAMETRIC VALUES
 ALPHAB = 9.918 MACH = 4.940
 ALPHAI = 0.000 ORBPOW = 100.000
 BSTPOW = 50.000

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

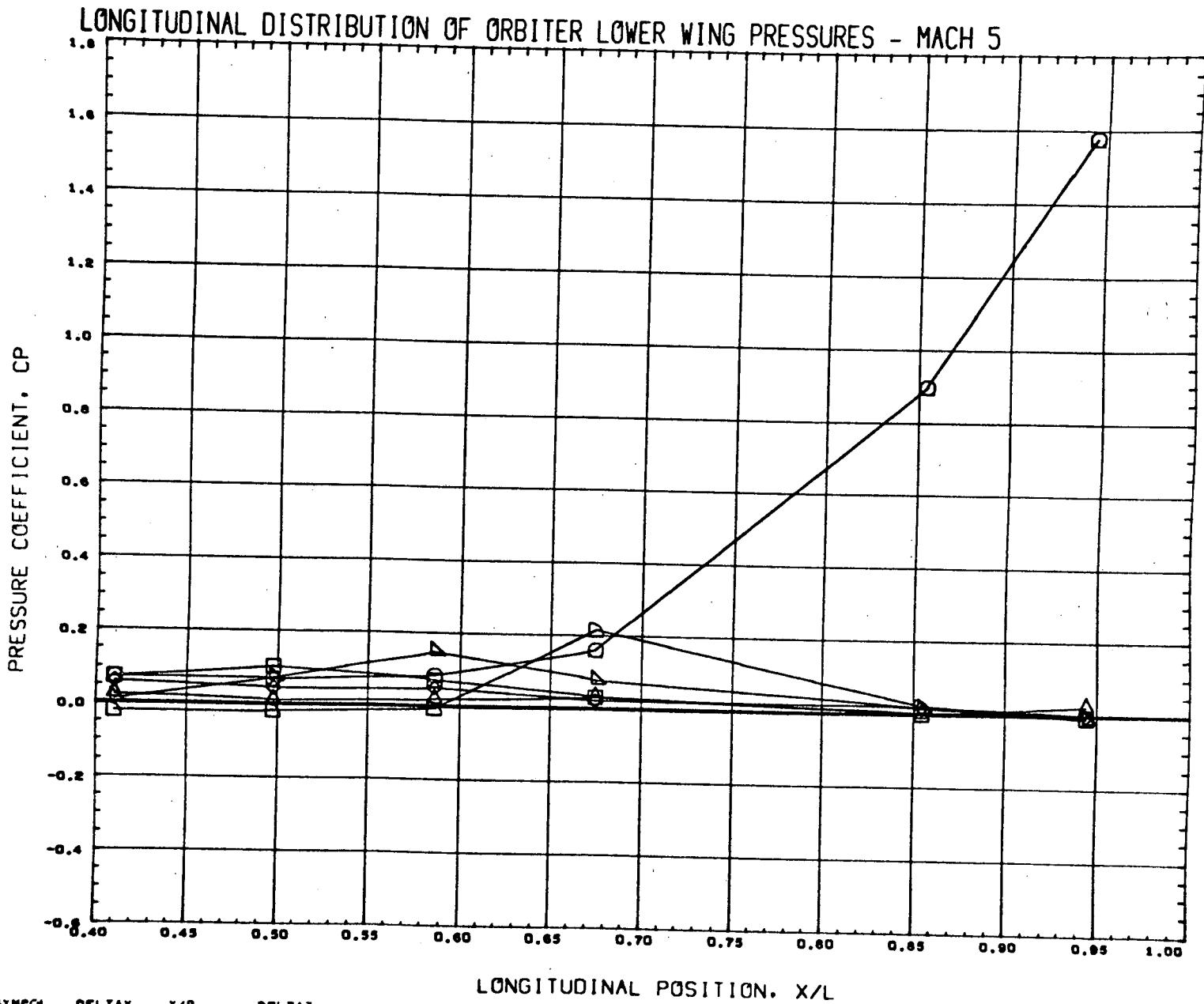


SYMBOL	DELTA X	Y/B	DELTA Z
-	0.390	0.739	0.120
-	0.143		
-	0.020		
-	0.103		
-	0.227		
-	0.350		

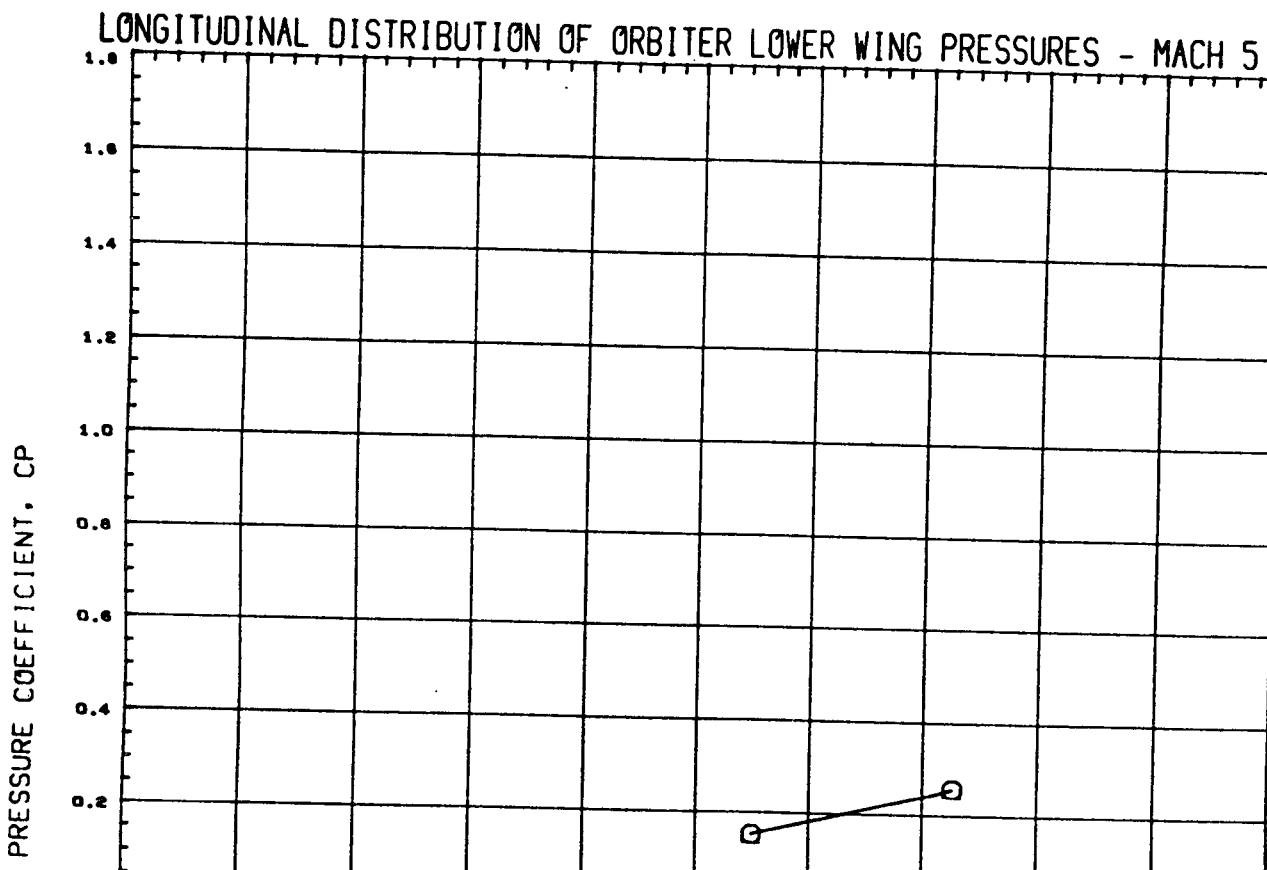
REFERENCE FILE

LONGITUDINAL POSITION, X/L

PARAMETRIC VALUES			
ALPHAB	- 9.918	MACH	4.940
ALPHAI	0.000	ORBPOW	100.000
BSTPOW	50.000		



PARAMETRIC VALUES		
ALPHAB	- 9.918	MACH 4.940
ALPHAI	0.000	ORBPOW 100.000
BSTPOW	50.000	



D D D D D
D D D D D
D D D D D
D D D D D
D D D D D

SYMBOL DELTAX Y/B DELTAZ

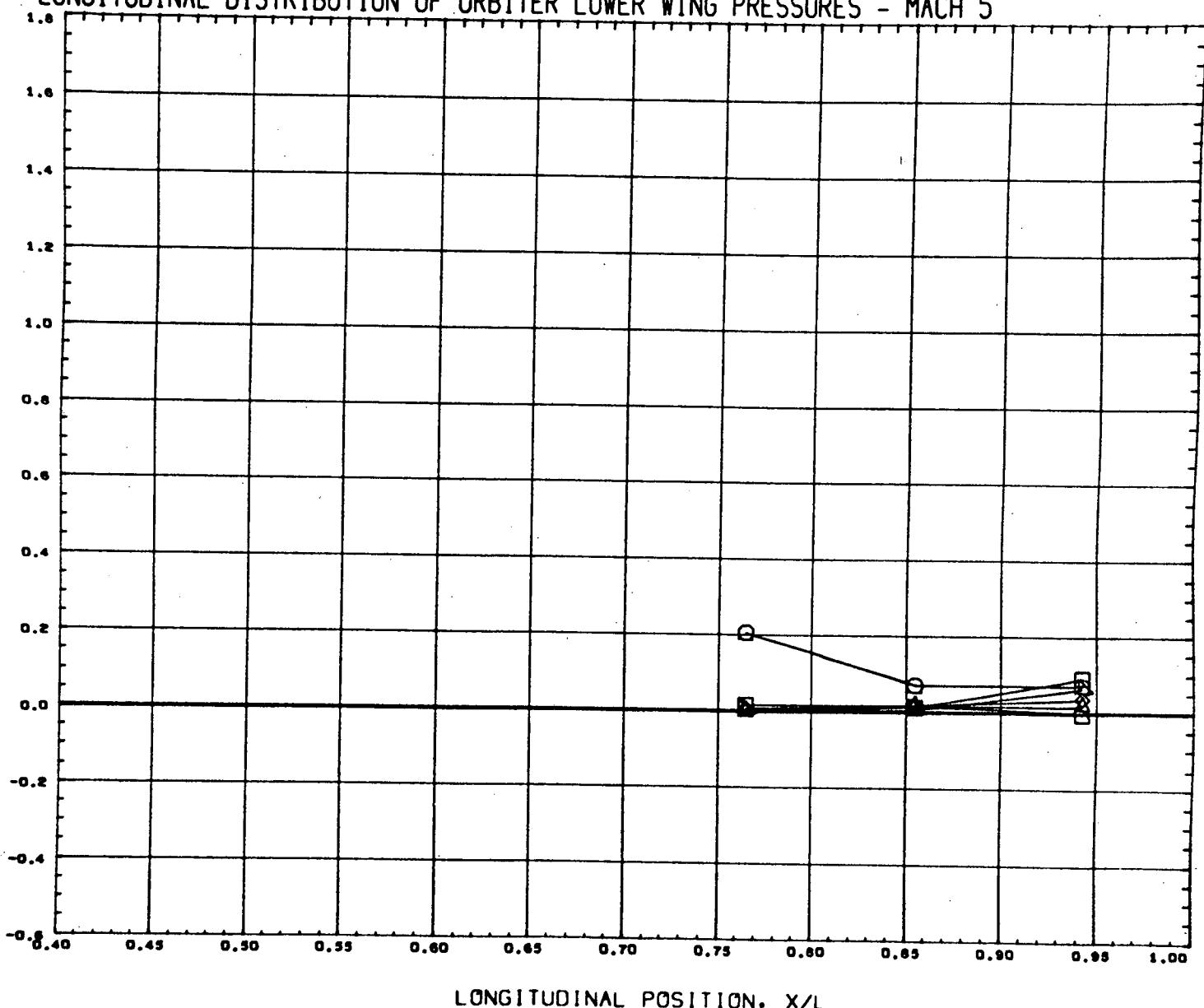
- 0.390 0.399 0.151
- 0.143
- 0.020
- 0.103
- 0.227
- 0.350 REFERENCE FILE

LONGITUDINAL POSITION, X/L

PARAMETRIC VALUES			
ALPHAB	= 9.918	MACH	4.940
ALPHAI	0.000	ORBPOW	100.000
BSTPOW	50.000		

PRESSURE COEFFICIENT, CP

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



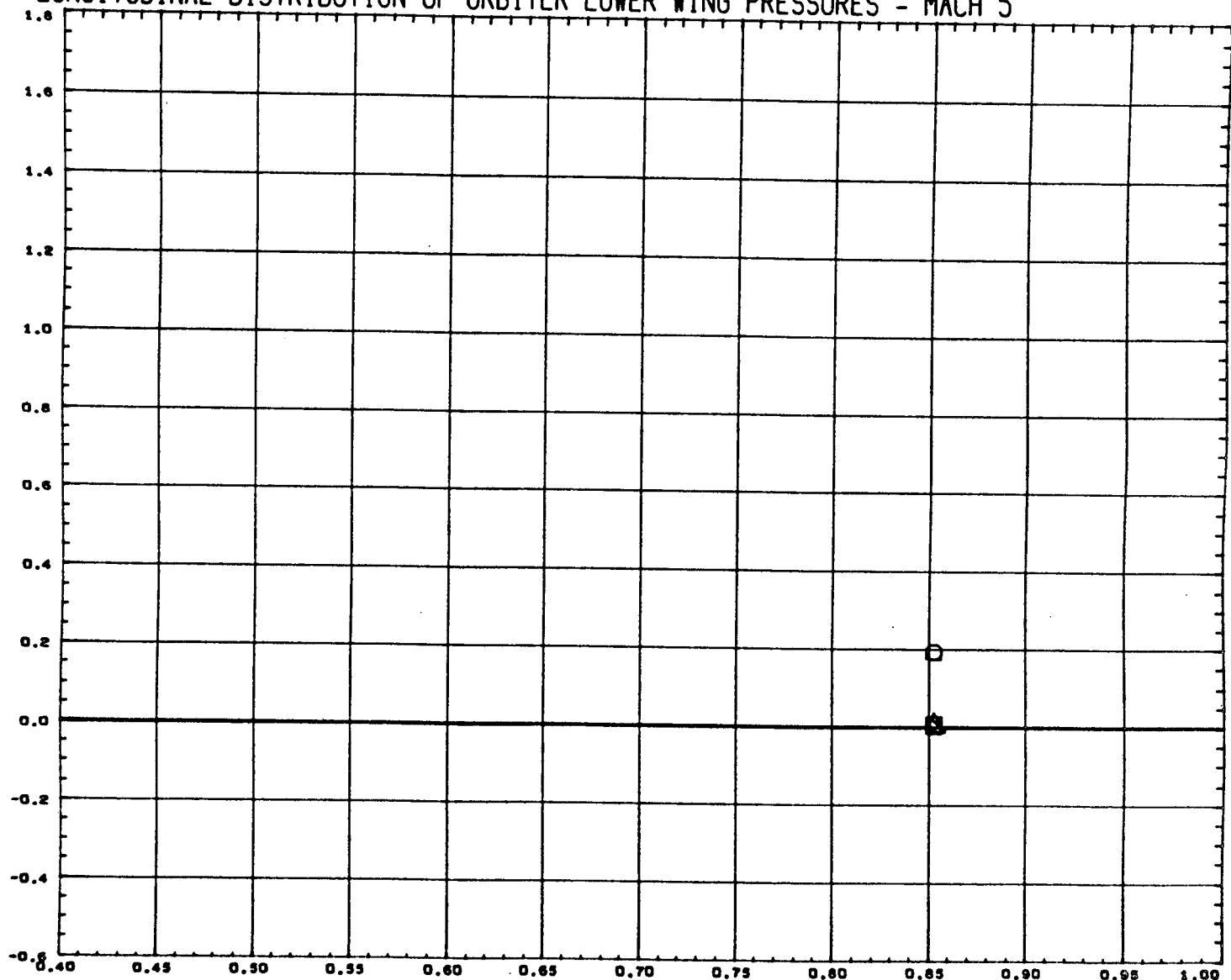
LONGITUDINAL POSITION, X/L

SYMBOL DELTAX Y/B DELTAZ
 - 0.390 0.369 0.151
 - 0.143
 - 0.020
 0.103
 0.227
 0.350 REFERENCE FILE

PARAMETRIC VALUES
 ALPHAB - 9.916 MACH 4.940
 ALPHAI 0.000 ORBPOW 100.000
 BSTPOW 50.000

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMLOC DELTAX Y/B DELTAZ
 - 0.390 0.730 0.191
 - 0.143
 - 0.020
 0.103
 0.227
 0.350 REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

LONGITUDINAL POSITION, X/L

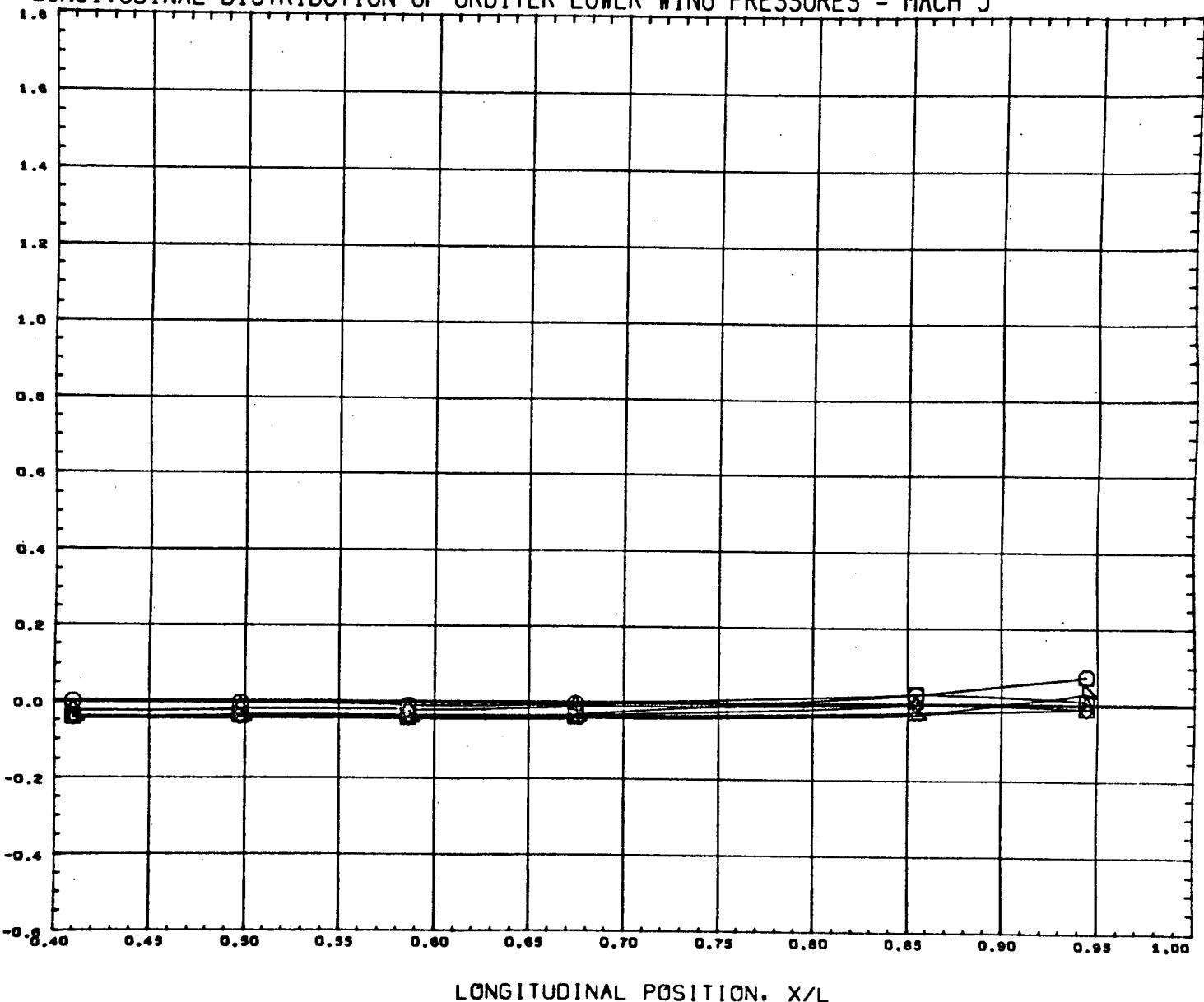
PARAMETRIC VALUES			
ALPHAB	- 9.916	MACH	4.940
ALPHAT	0.000	ORBPOW	100.000
BSTPOW	30.000		

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



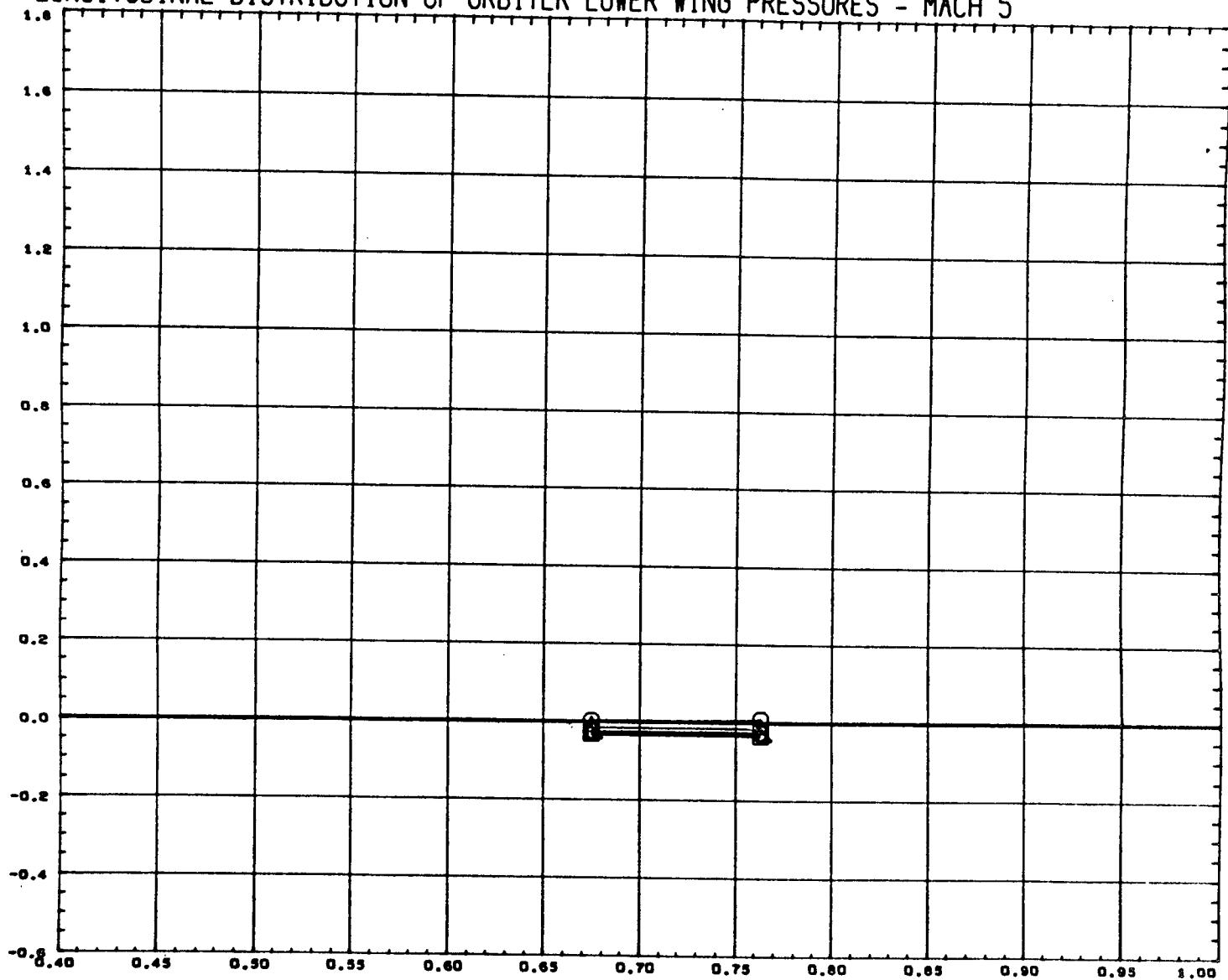
LONGITUDINAL POSITION. X/L

SYMBOL	DELTA X	T/E	DELTA Z
-	0.390	0.230	0.226
-	0.143		
-	0.020		
0.103			
0.227			
0.350			
	REFERENCE FILE		

PARAMETRIC VALUES				
ALPHAB	-	9.916	MACH	4.940
ALPHAI		0.000	ORBPOW	100.000
BSTPOW		50.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



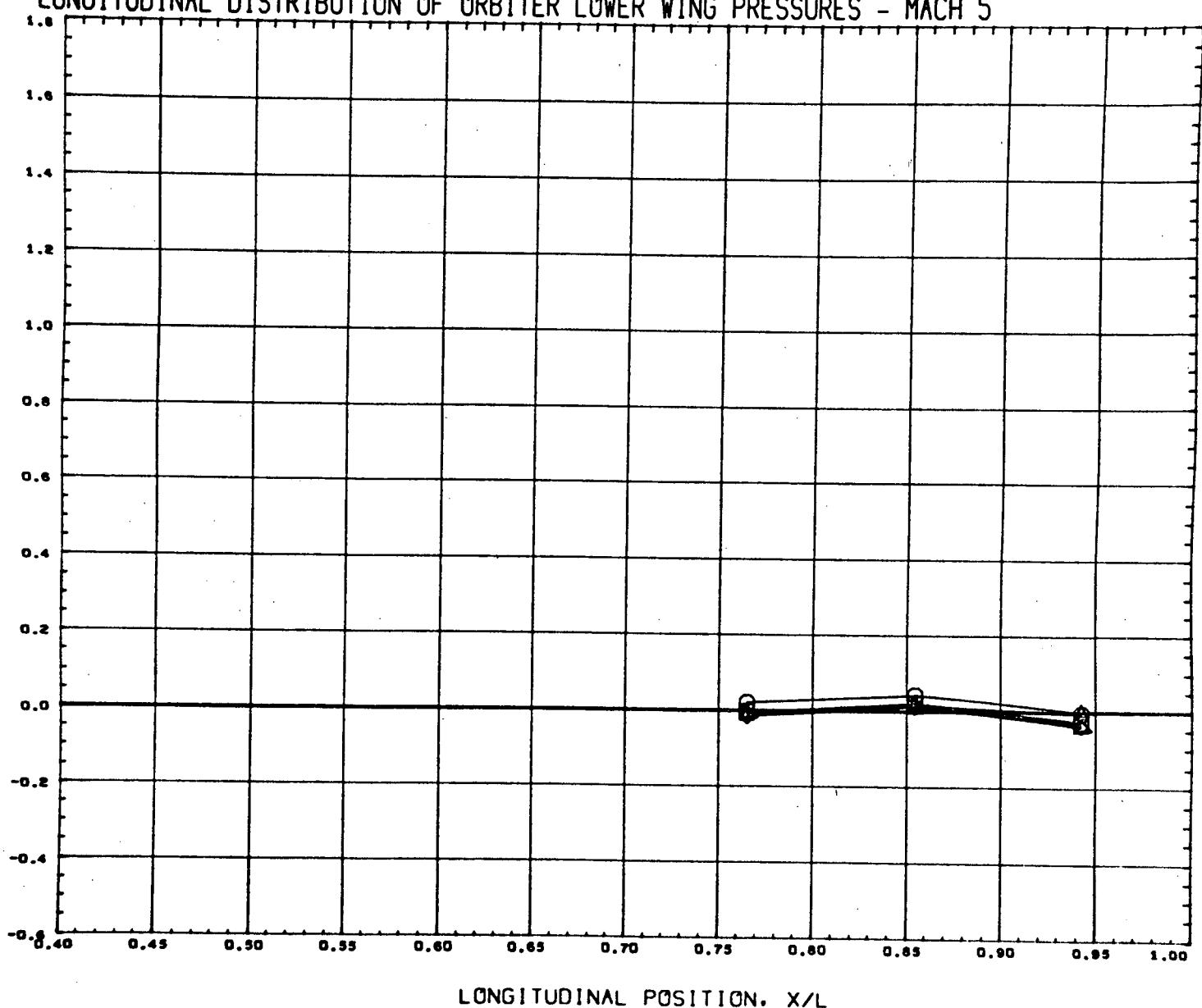
LONGITUDINAL POSITION, X/L

SYMBOL DELTAX T/B DELTAZ
 □ 0.390 0.399 0.226
 △ 0.143
 ◇ 0.020
 ○ 0.103
 × 0.227
 ▽ 0.350 REFERENCE FILE

PARAMETRIC VALUES
 ALPHAB = 9.918 MACH = 4.940
 ALPHAI = 0.000 ORBPOW = 100.000
 BSTPOW = 50.000

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



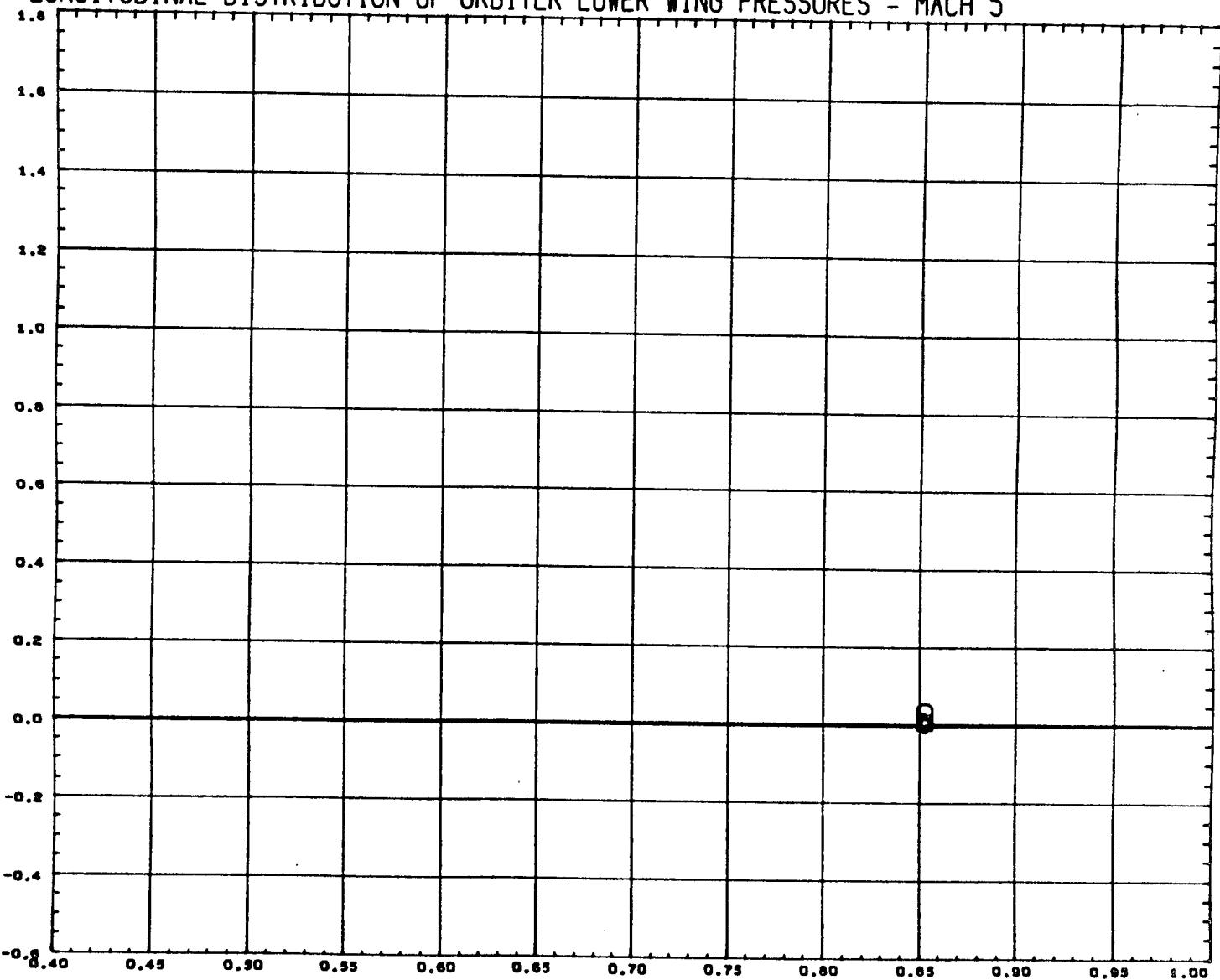
SYMBOL DELTAX Y/E DELTAZ
 □ 0.390 0.568 0.228
 ◇ 0.143
 - 0.020
 ○ 0.103
 × 0.227
 Δ 0.350 REFERENCE FILE

LONGITUDINAL POSITION. X/L

PARAMETRIC VALUES		
ALPHAB	- 9.918	MACH 4.940
ALPHAT	0.000	ORBPOW 100.000
BSTPOW	50.000	

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

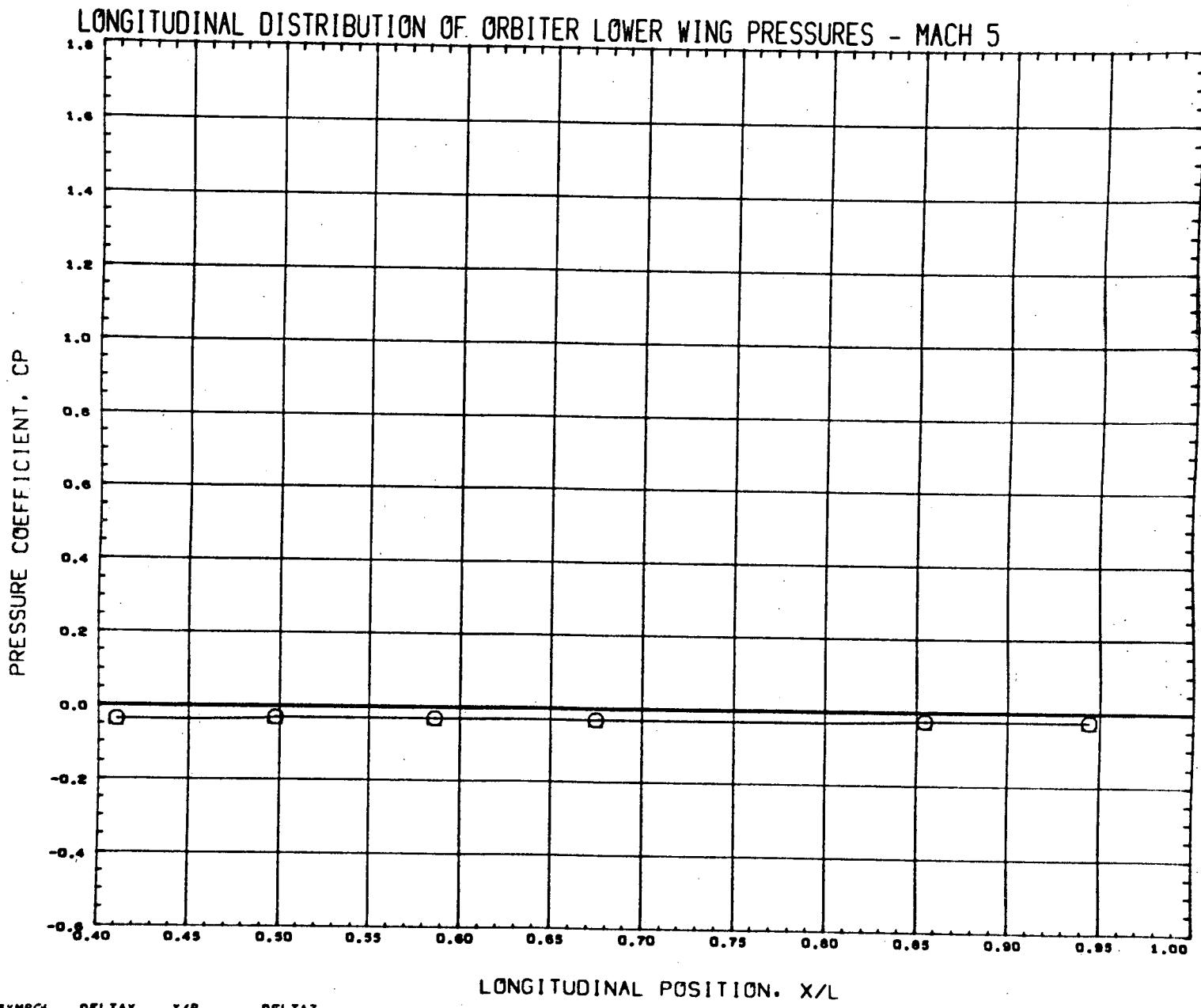
PRESSURE COEFFICIENT, CP



SYMBOL DELTAX Y/Z DELTAZ
 D 0.390 0.736 0.226
 D 0.143
 D 0.020
 D 0.103
 D 0.227
 D 0.350 REFERENCE FILE

LONGITUDINAL POSITION, X/L

PARAMETRIC VALUES			
ALPHAB	-	9.918	MACH
ALPHAI		0.000	ORBPOW
BSTPOW		50.000	



SYMBOL DELTAX T/B DELTAZ

PARAMETRIC VALUES

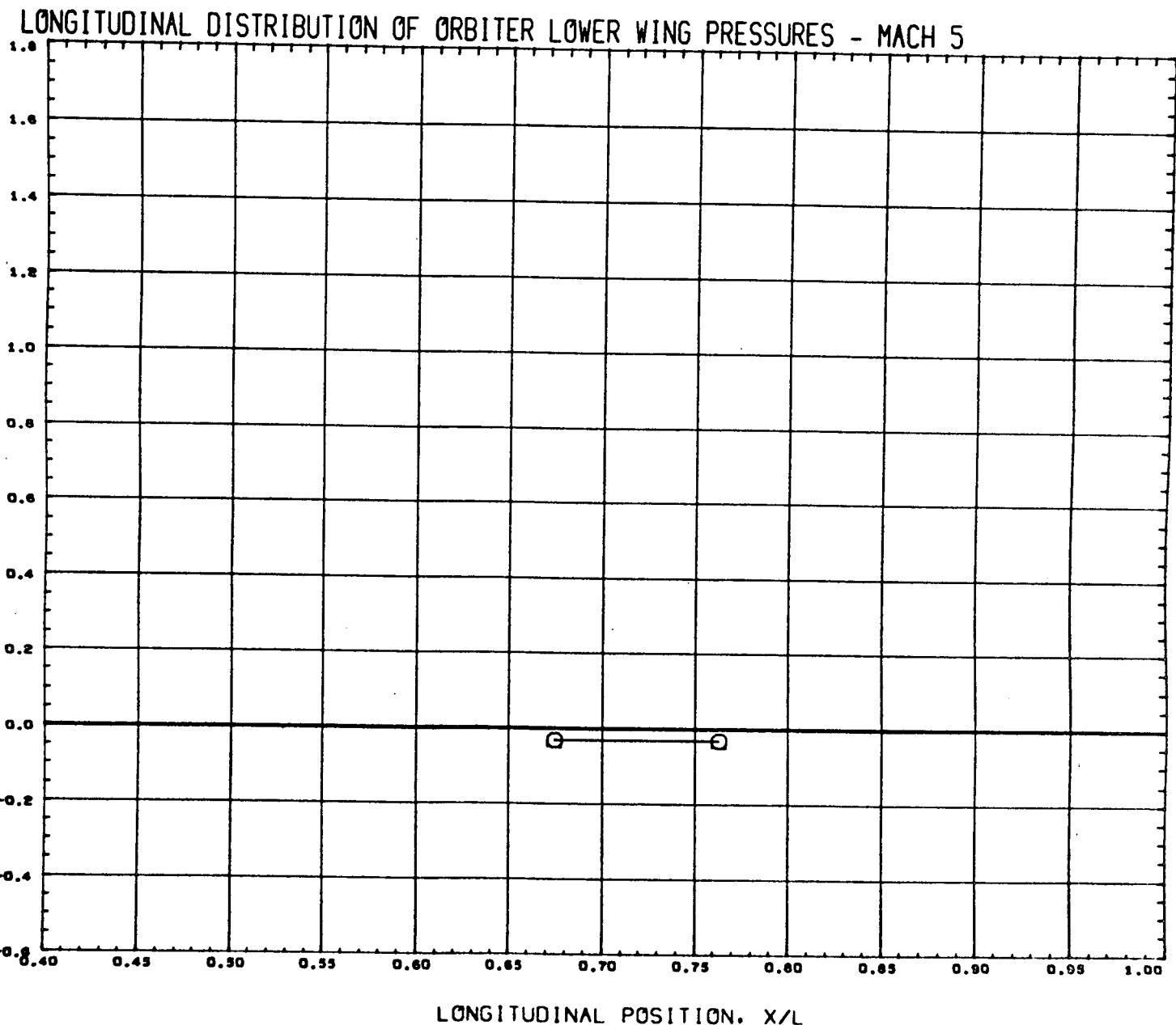
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

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PRESSURE COEFFICIENT, CP



SYMBOL DELTAX Y/B DELTAZ

C 0.520 0.399 0.906

PARAMETRIC VALUES
ALPHAB = 9.918 MACH 4.940
ALPHAI = 0.000 ORBPOW 100.000
BSPPOW 50.000

REFERENCE FILE

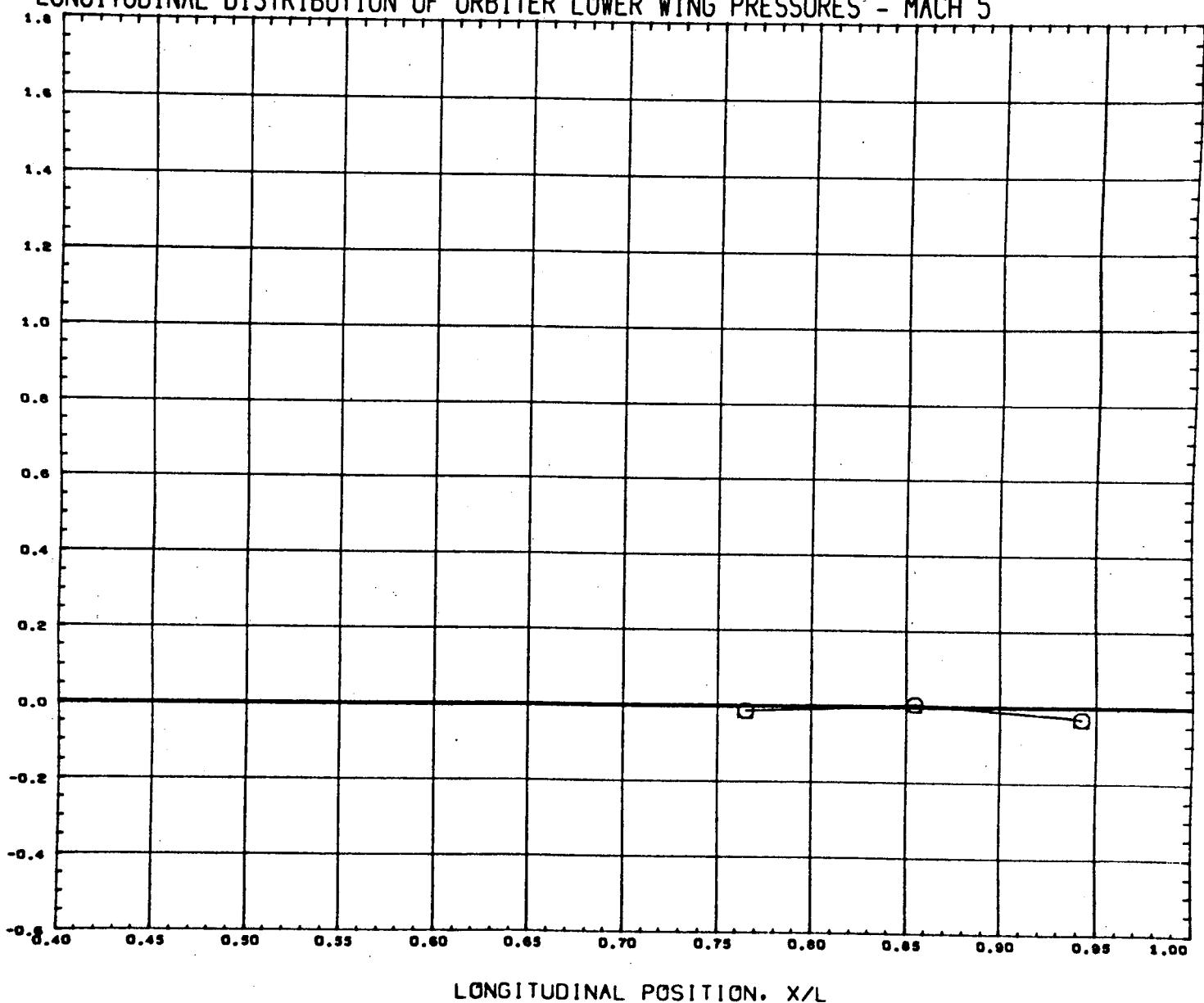
AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL DELTAX Y/Z DELTAZ

C 0.920 0.960 0.908

LONGITUDINAL POSITION. X/L

PARAMETRIC VALUES				
ALPHAB	-	9.918	MACH	4.940
ALPHAI		0.000	ORBPOW	100.000
BSTPOW		50.000		

REFERENCE FILE

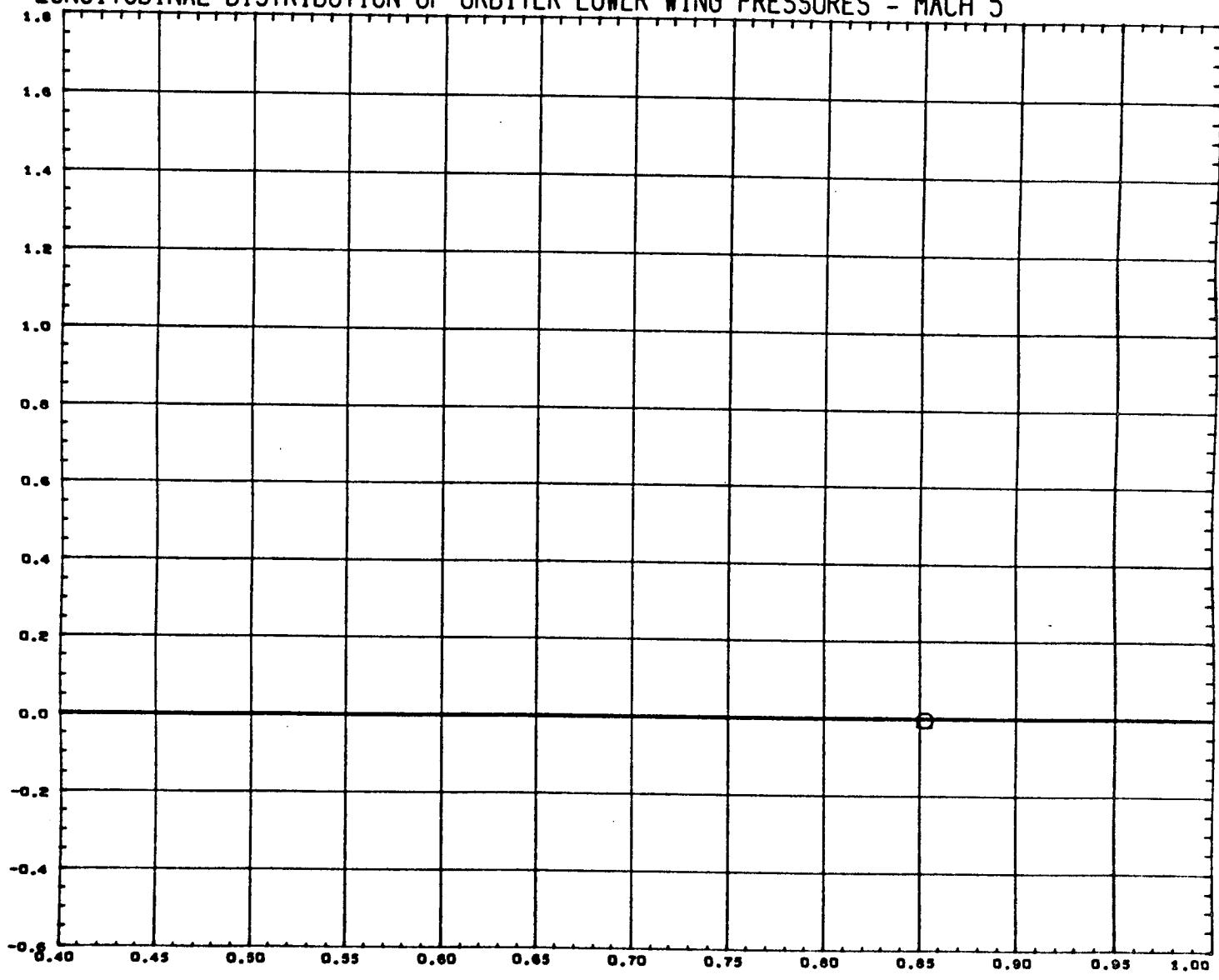
AEDC VAI163 MDAC ORBITER (LOWER WING)

•HT8531•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION, X/L

SYMBOL DELTAX Y/Z DELTAZ
C 0.520 0.738 0.908

ALPHAB	- 9.916	MACH	4.940
ALPHAI	0.000	ORBPOW	100.000
BSTPOW	50.000		

REFERENCE FILE

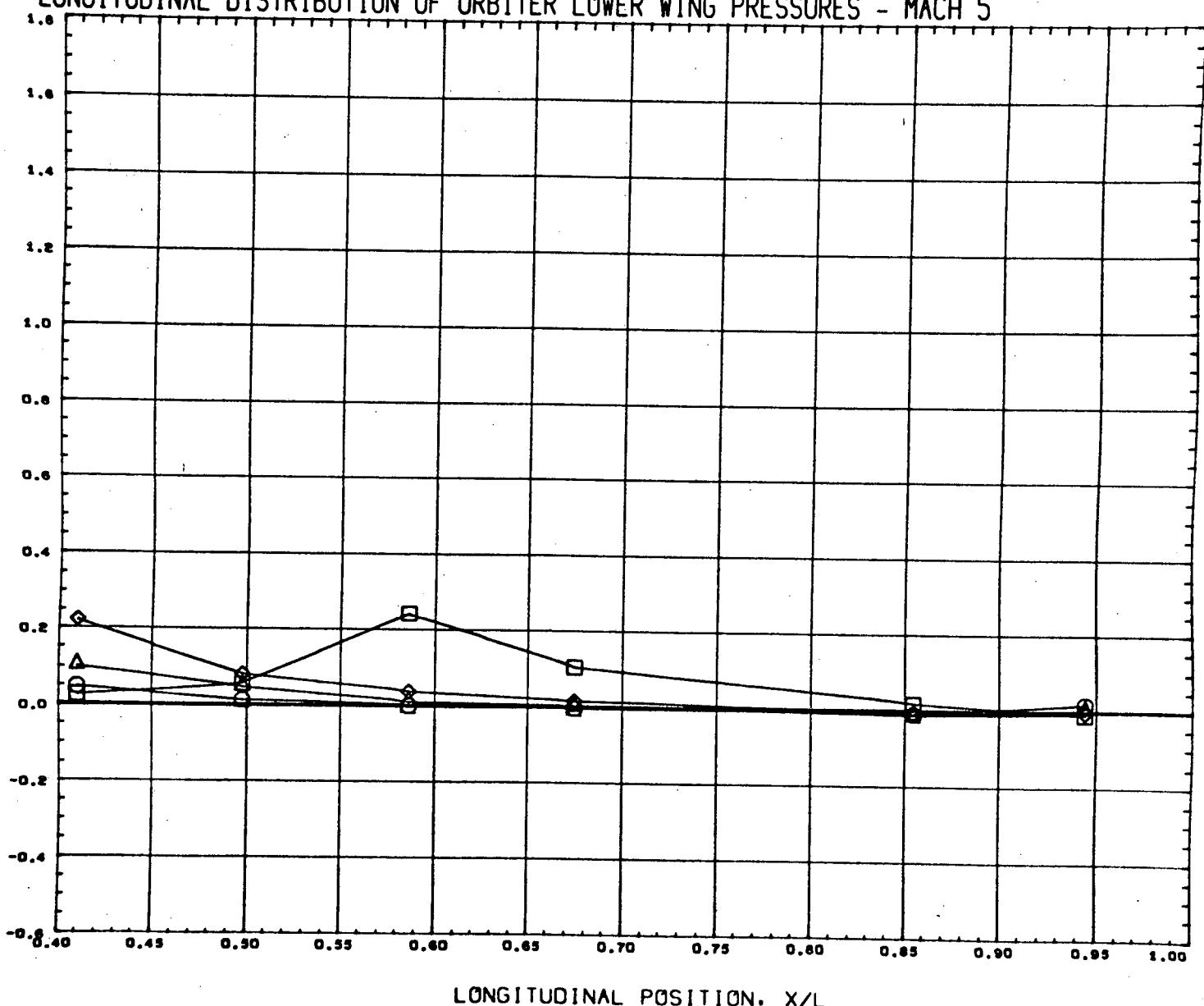
AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION. X/L

SYMBOL	DELTA X	Y/B	DELTA Z
C	0.041	0.230	0.114
D	0.103		
E	0.165		
F	0.350		

PARAMETRIC VALUES			
ALPHAB	- 5.090	MACH	4.940
ALPHAI	0.000	ORBPOW	100.000
BSTPOW	50.000		

REFERENCE FILE

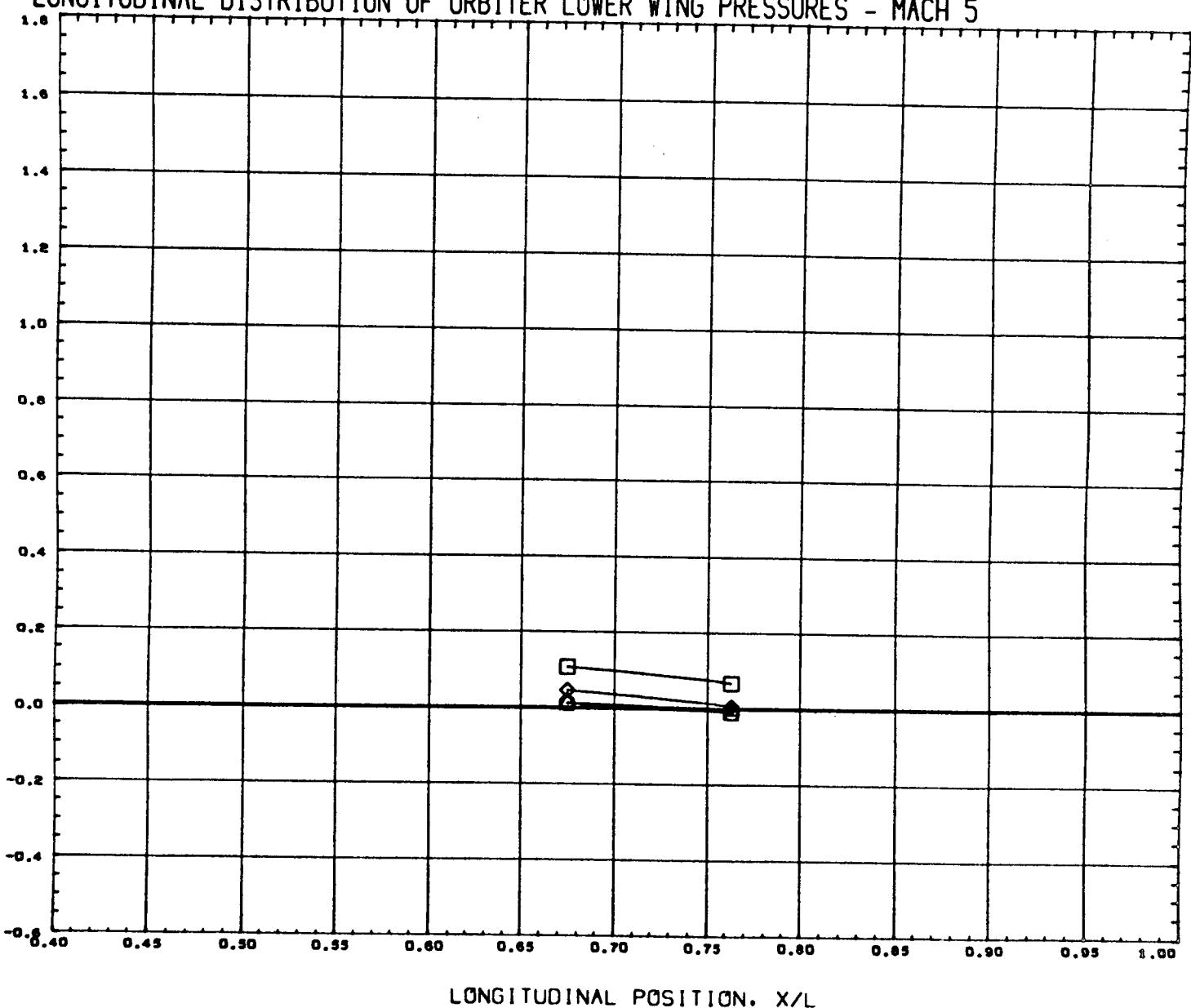
AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL DELTAX Y/B DELTAZ

\times 0.041 0.399 0.114

\diamond 0.103

\square 0.165

 0.390

LONGITUDINAL POSITION. X/L

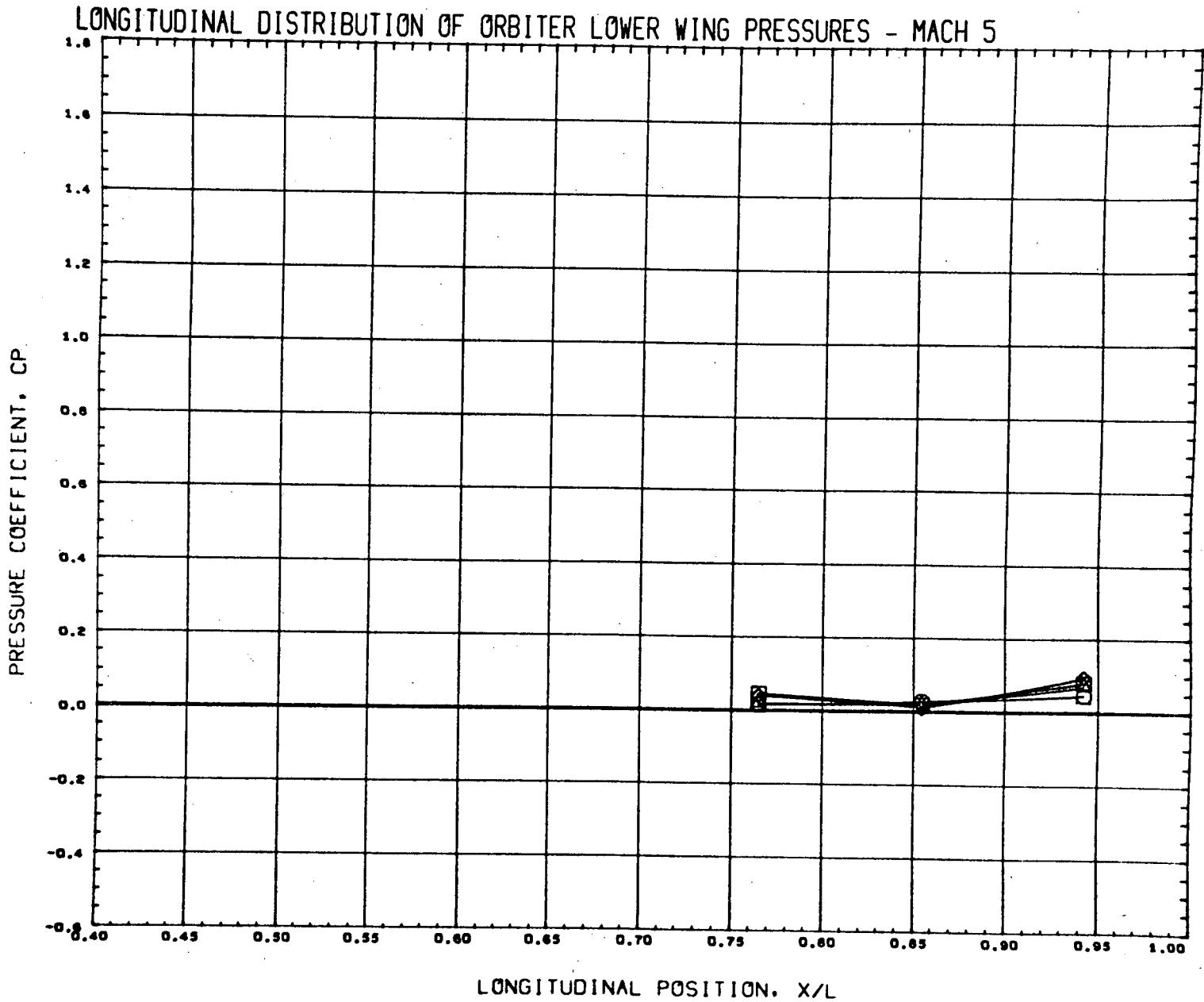
PARAMETRIC VALUES			
ALPHAB	- 5.090	MACH	4.940
ALPHAI	0.000	ORBPOW	100.000
BSTPOW	50.000		

REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

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SYMBOL	DELTA X	T/E	DELTA Z
Δ	0.041	0.368	0.114
\diamond	0.103		
\square	0.165		
	0.350		

PARAMETRIC VALUES			
ALPHAB	- 5.090	MACH	4.940
ALPHAI	0.000	ORBPOW	100.000
BSTPOW	50.000		

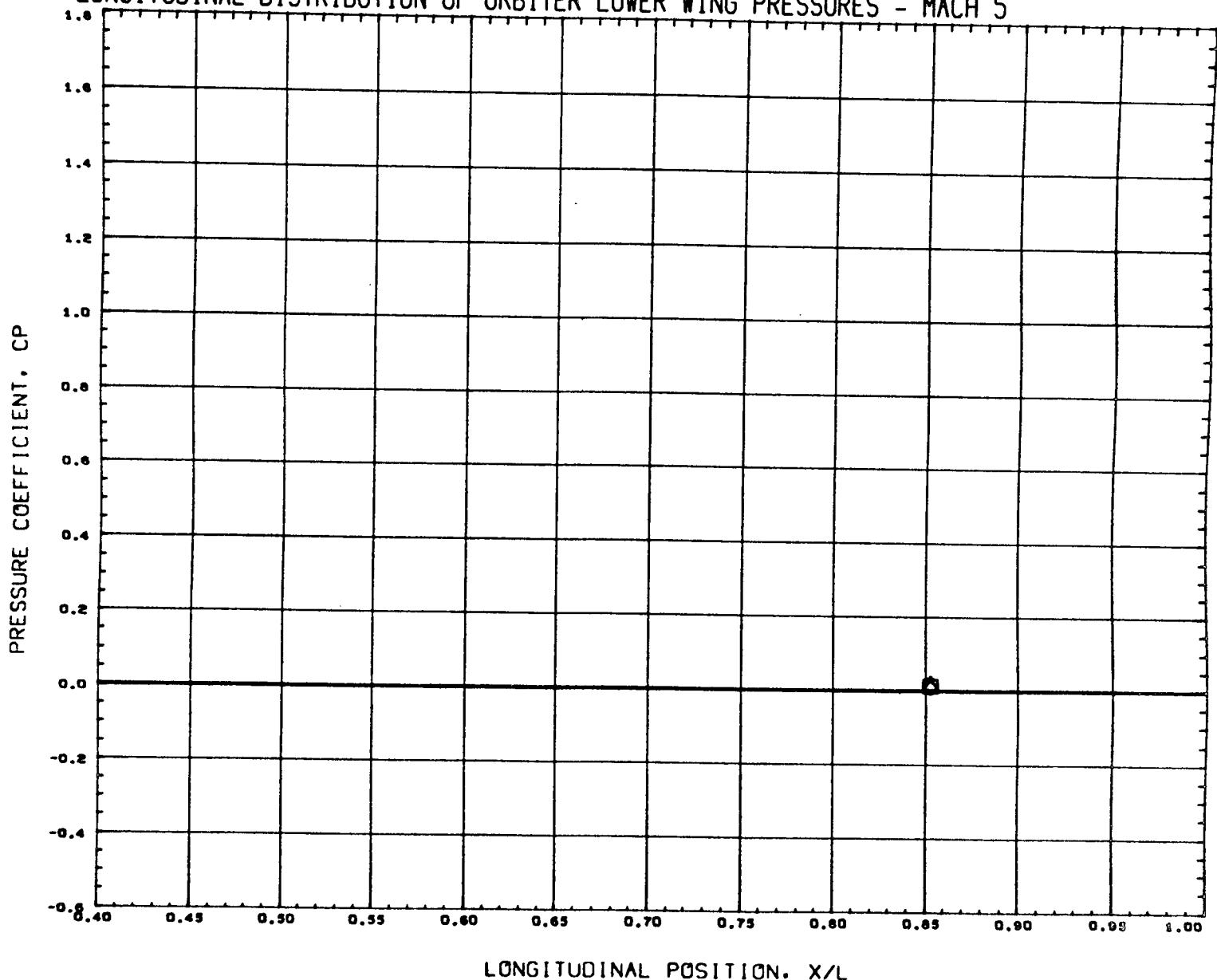
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
Δ	0.041	0.736	0.114
\diamond	0.103		
\square	0.165		
	0.350		

PARAMETRIC VALUES			
ALPHAB	- 5.090	MACH	4.940
ALPHAI	0.000	ORBPOW	100.000
BSTPOW	50.000		

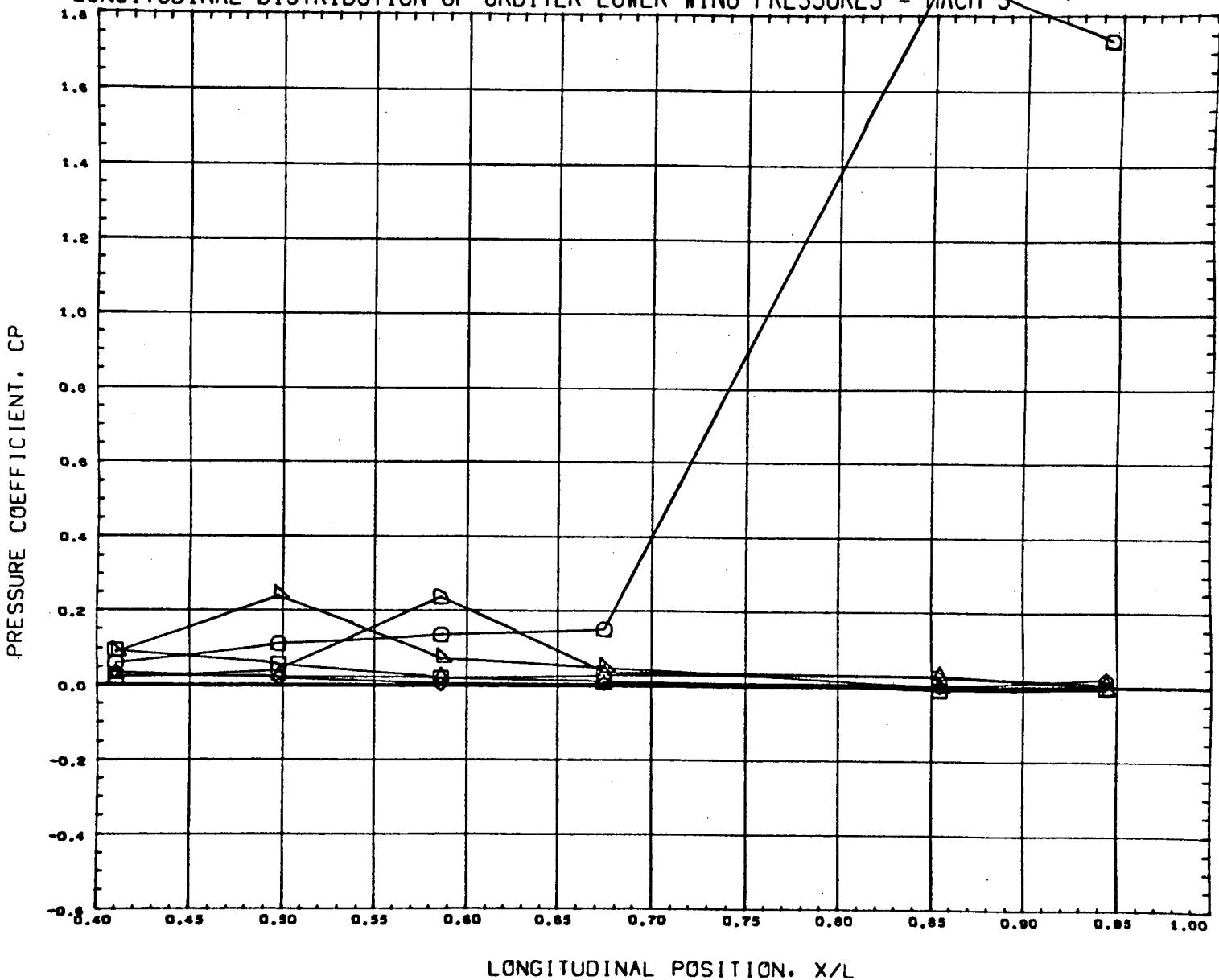
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AEDC VAI163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



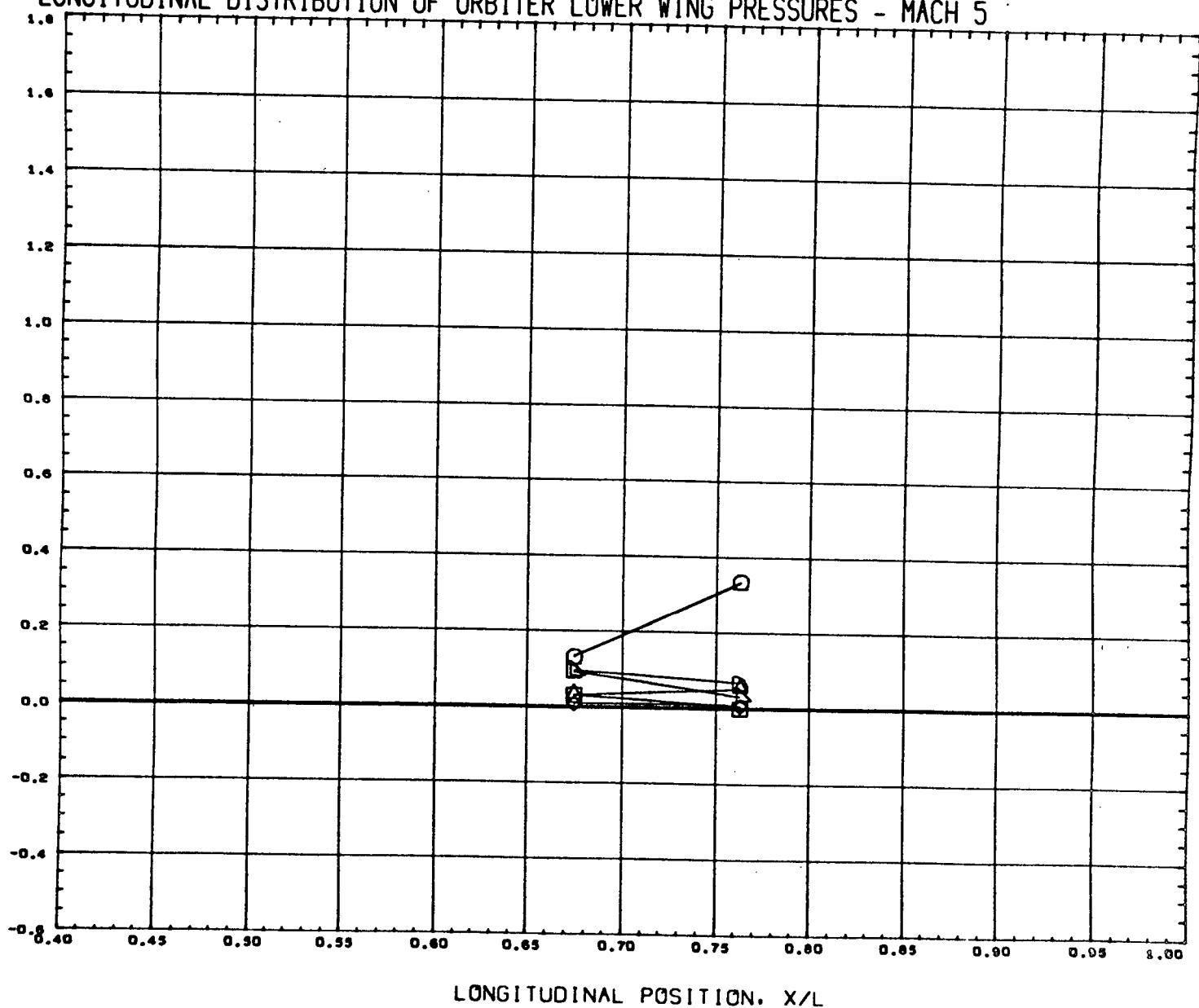
SYMBOL	DELTAX	T/B	DELTAZ
○	- 0.390	0.230	0.120
△	- 0.143		
◊	- 0.020		
□	0.103		
■	0.227		
□	0.350	REFERENCE FILE	

PARAMETRIC VALUES

ALPHAB	- 3.090	MACH	4.940
ALPHAT	0.000	ORBPOW	100.000
BSTFOW	50.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP

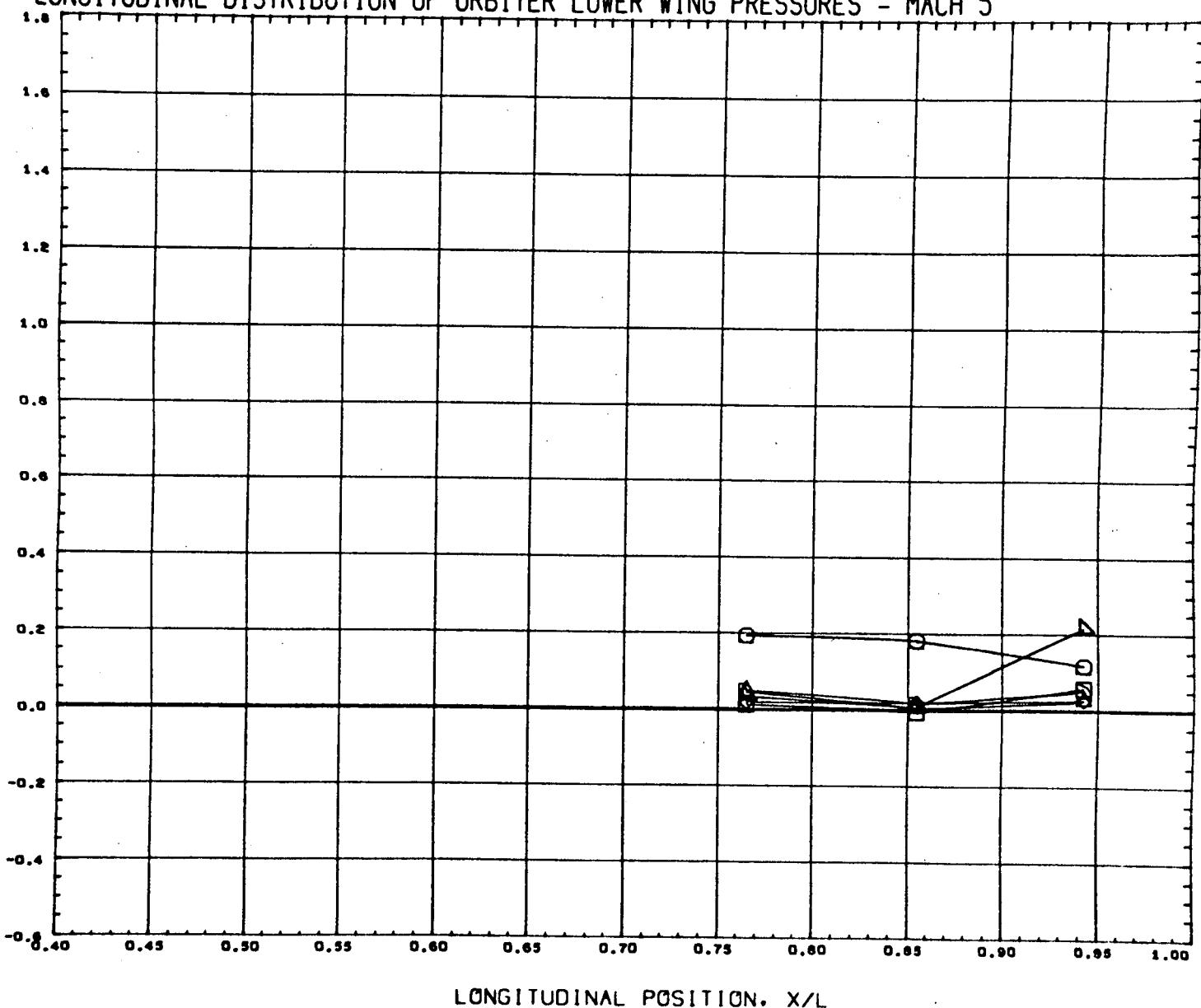


SYMBOL DELTAX T/B DELTAZ
 - 0.390 0.399 0.120
 - 0.143
 - 0.020
 0.103
 0.227
 0.350 REFERENCE FILE

PARAMETRIC VALUES
 ALPHAB = 5.090 MACH = 4.940
 ALPHAI = 0.000 ORBPOW = 100.000
 BSTPOW = 50.000

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION, X/L

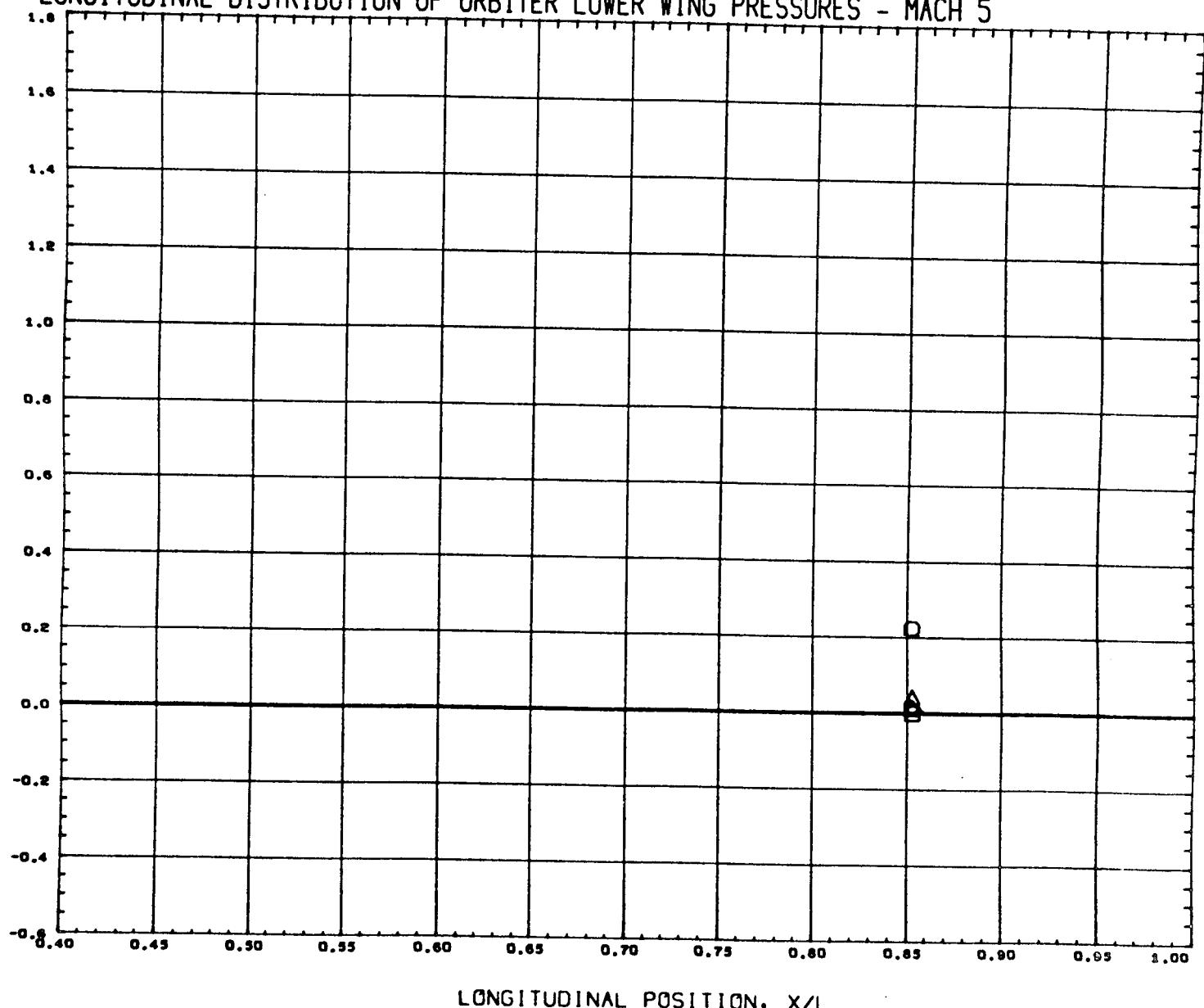
SYMBOL	DELTA X	Y/B	DELTA Z
-	0.390	0.565	0.120
-	0.143		
-	0.020		
-	0.103		
-	0.227		
-	0.350		

REFERENCE FILE

PARAMETRIC VALUES				
ALPHAB	-	5.090	MACH	4.940
ALPHAI	-	0.000	ORBPOW	100.000
BSTPOW	-	50.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP

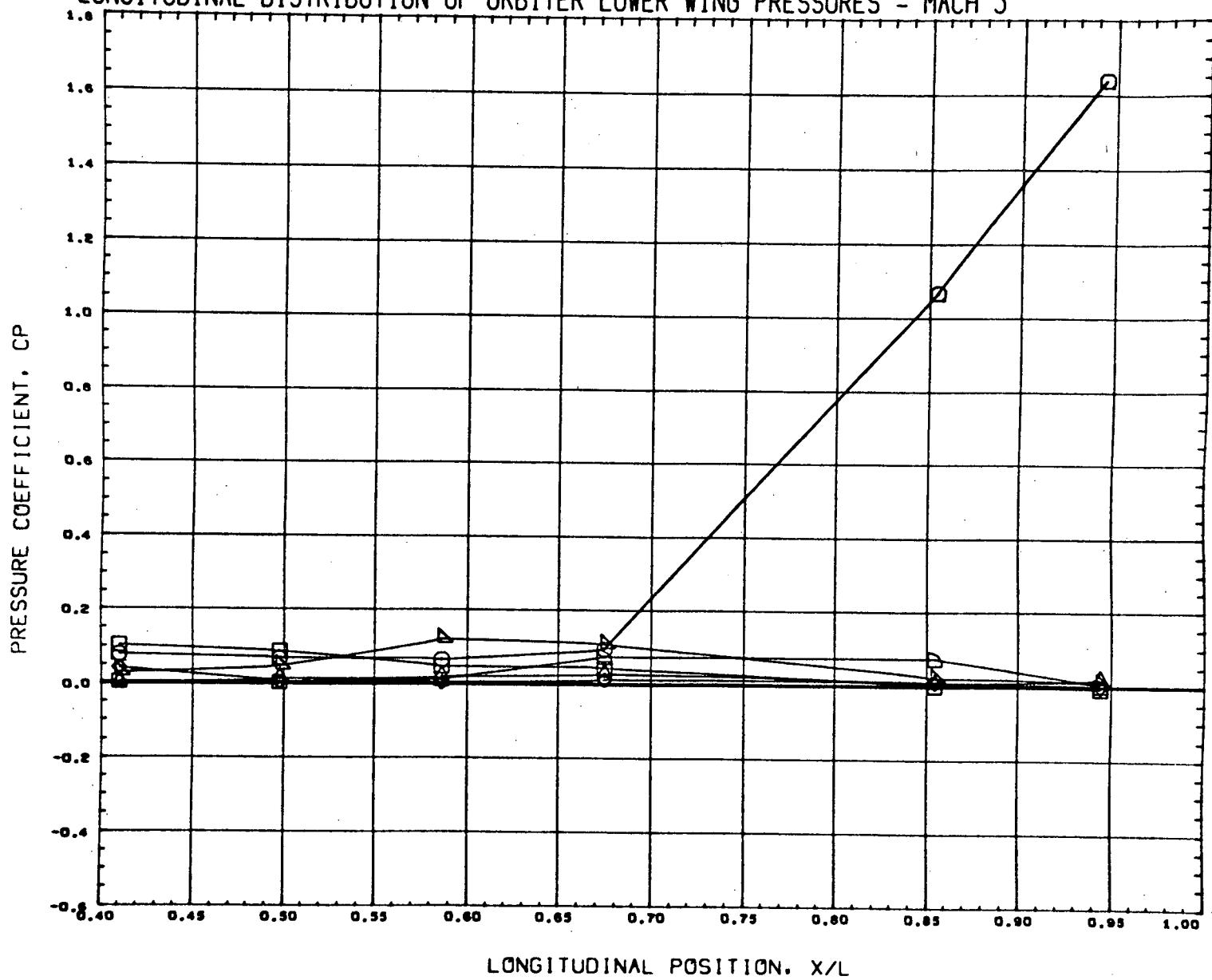


SYMBOL DELTAX Y/B DELTAZ
 □ 0.390 0.738 0.120
 △ 0.143
 - 0.020
 ○ 0.103
 × 0.227
 ◇ 0.350 REFERENCE FILE

PARAMETRIC VALUES

ALPHAB	-	5.090	MACH	4.940
ALPHAI	=	0.000	ORBPOW	100.000
BSTPOW	=	50.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



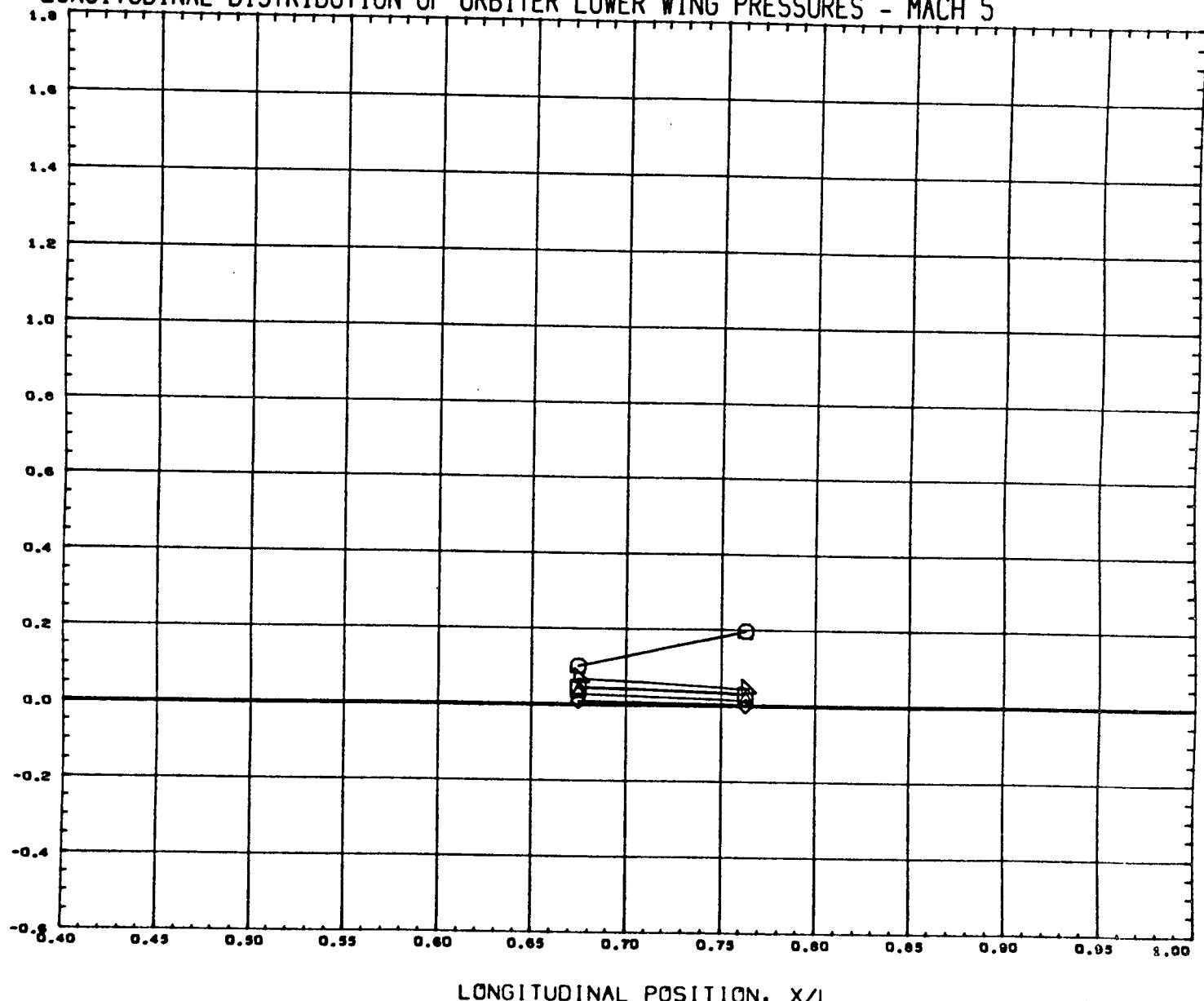
SYMBOL	DELTA X	Y/6	DELTA Z
-	0.390	0.230	0.151
-	0.143		
-	0.020		
○	0.103		
△	0.227		
□	0.350		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	- 5.090	MACH	4.940
ALPHAI	0.000	ORBPOW	100.000
BSTPOW	50.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL DELTAX Y/B DELTAZ
 □ 0.390 0.399 0.151
 ▽ 0.143
 ▲ 0.020
 ◇ 0.103
 × 0.227
 ○ 0.390 REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

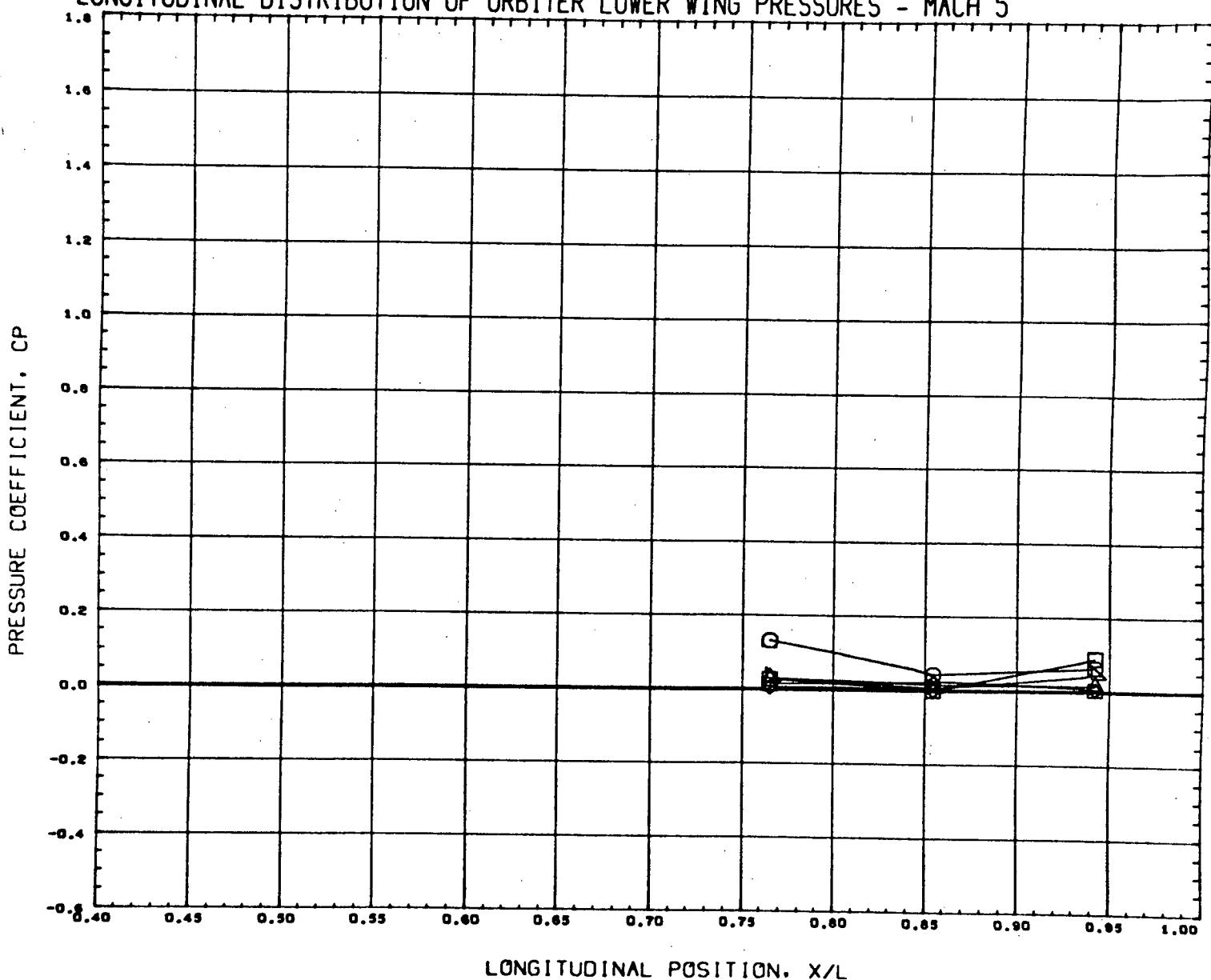
LONGITUDINAL POSITION, X/L

PARAMETRIC VALUES			
ALPHAB	5.090	MACH	4.940
ALPHAI	0.000	ORBPOW	100.000
BSTPOW	50.000		

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

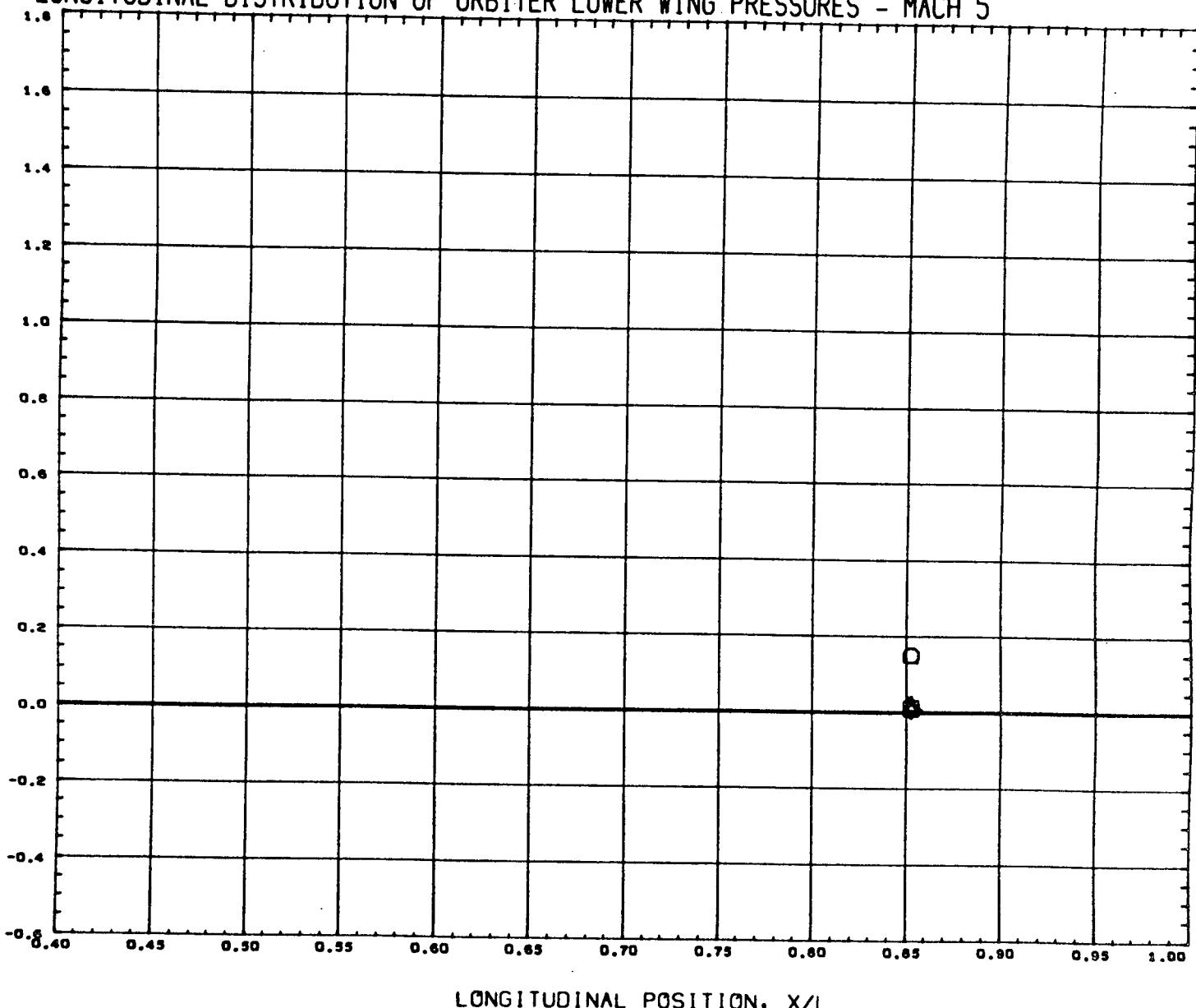


SYMBOL	DELTA X	Y/B	DELTA Z
-	0.390	0.568	0.151
-	0.143		
-	0.020		
0.103			
0.227			
0.350			
REFERENCE FILE			

PARAMETRIC VALUES		
ALPHAB	- 3.090	MACH 4.940
ALPHAI	0.000	ORBPOW 100.000
BSTPOW	50.000	

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



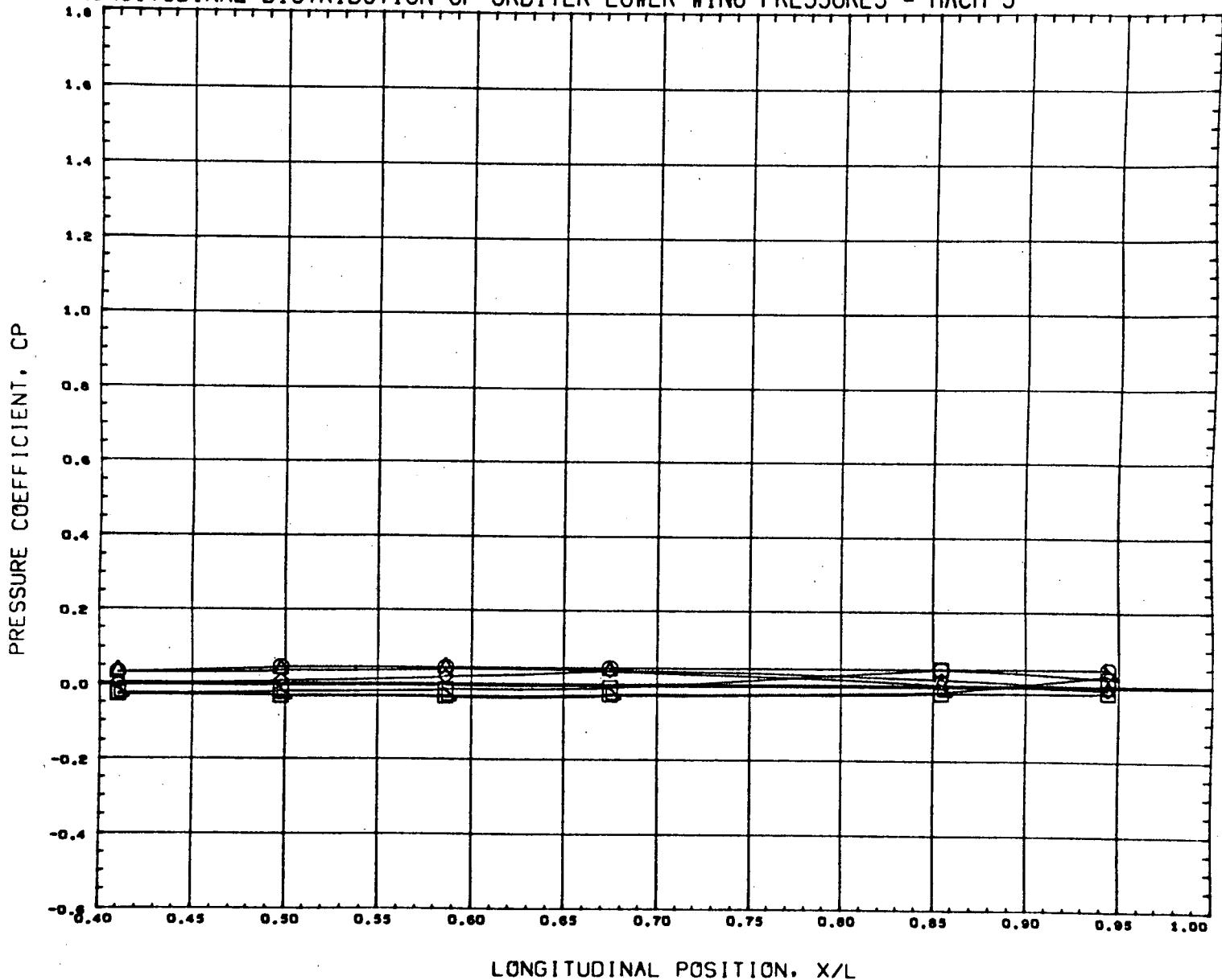
LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
-	0.390	0.739	0.191
-	0.143		
-	0.020		
-	0.103		
-	0.227		
-	0.350		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	- 5.090	MACH	4.940
ALPHAI	0.000	ORBPOW	100.000
BSTPOW	50.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

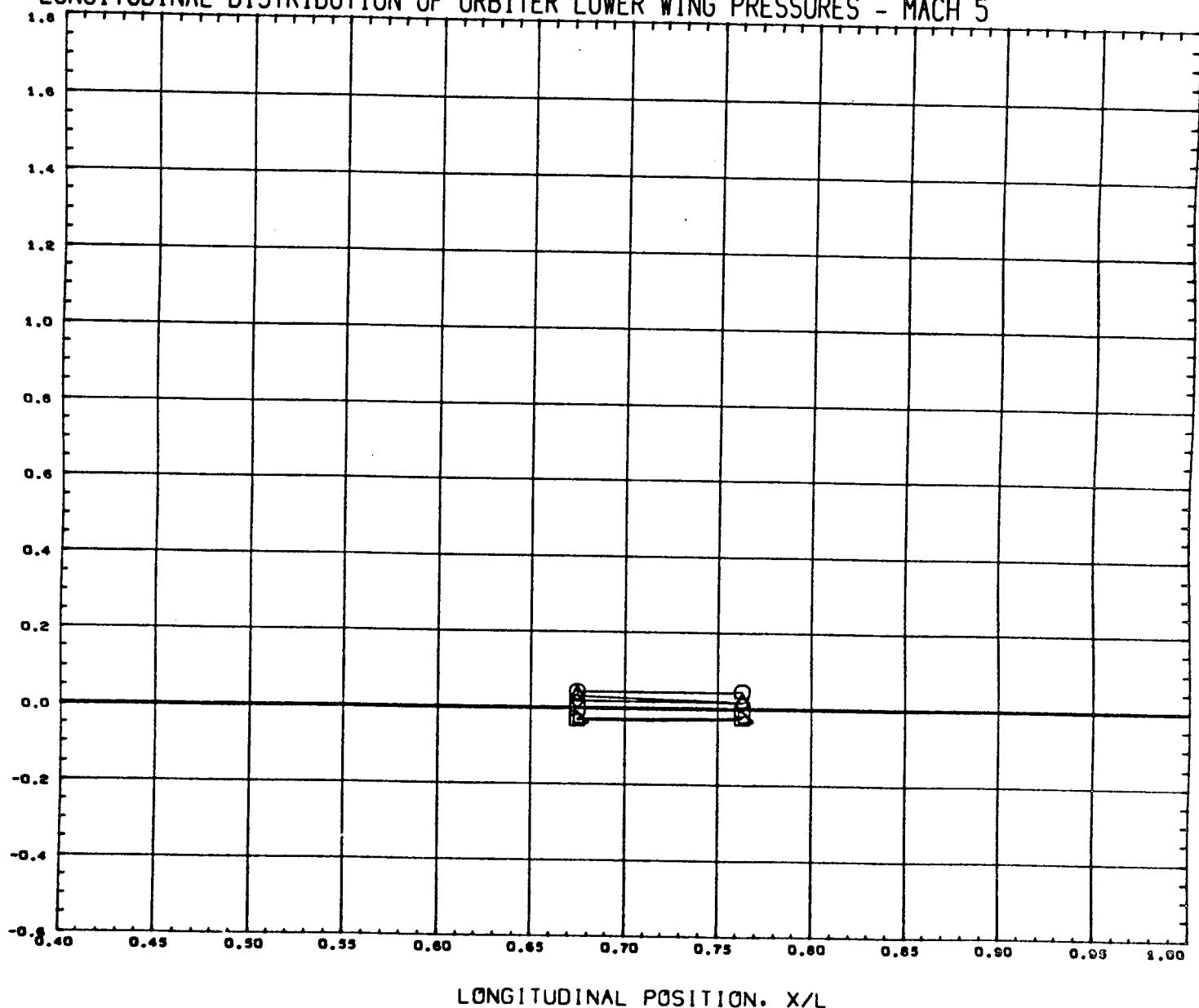


SYMBOL	DELTA X	Y/B	DELTA Z
○	- 0.390	0.230	0.226
△	- 0.143		
◊	- 0.020		
□	0.103		
×	0.227		
▷	0.350		
REFERENCE FILE			

PARAMETRIC VALUES		
ALPHAB	- 5.090	MACH 4.940
ALPHAI	0.000	ORBPOW 100.000
BSTPOW	50.000	

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



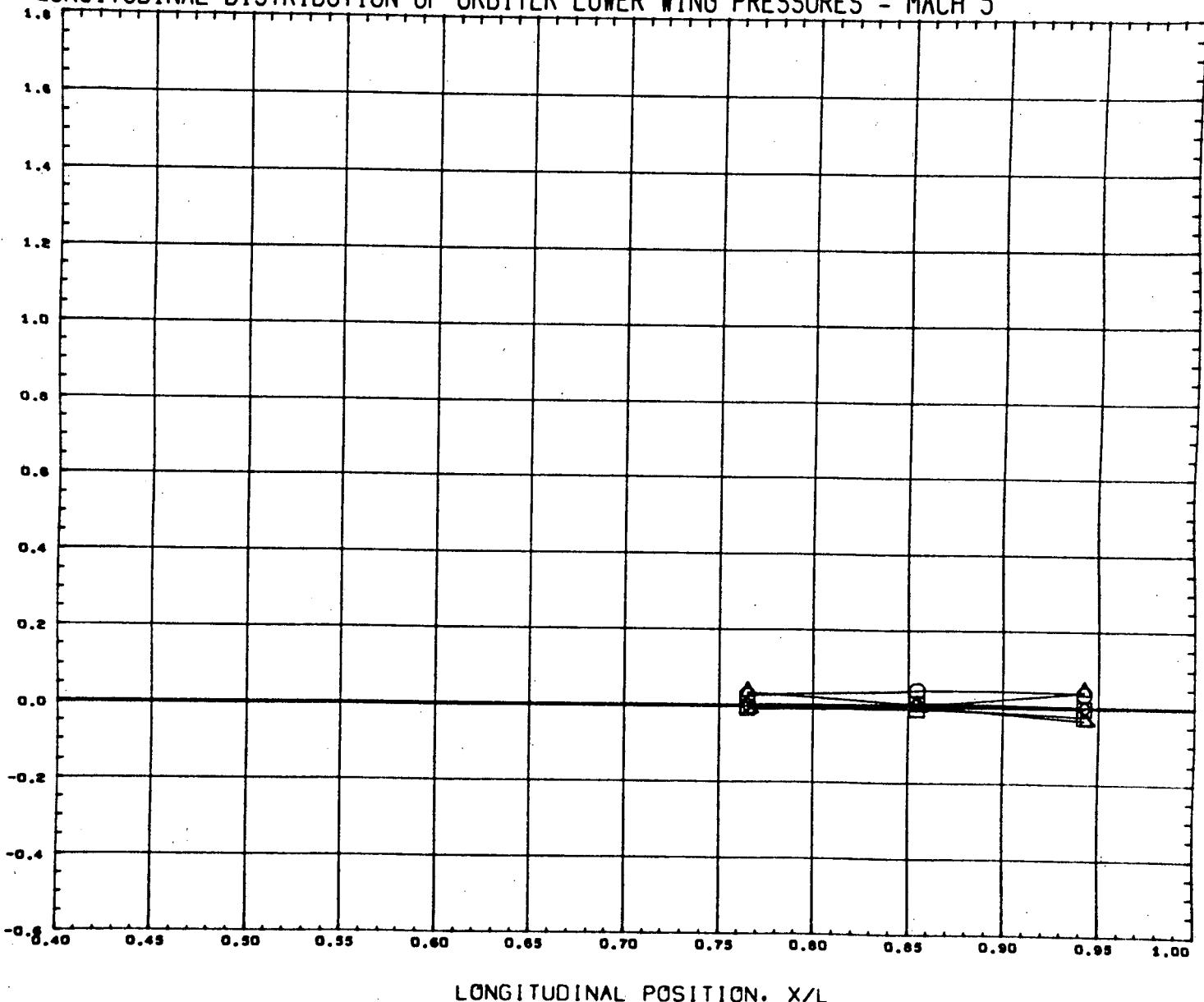
LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	T/B	DELTA Z
-	0.399	0.399	0.220
-	0.143		
-	0.020		
	0.103		
	0.227		
	0.350		
REFERENCE FILE			

PARAMETRIC VALUES			
ALPHAB	- 3.090	MACH	4.940
ALPHAI	0.000	ORBPOW	100.000
BSTPOW	50.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



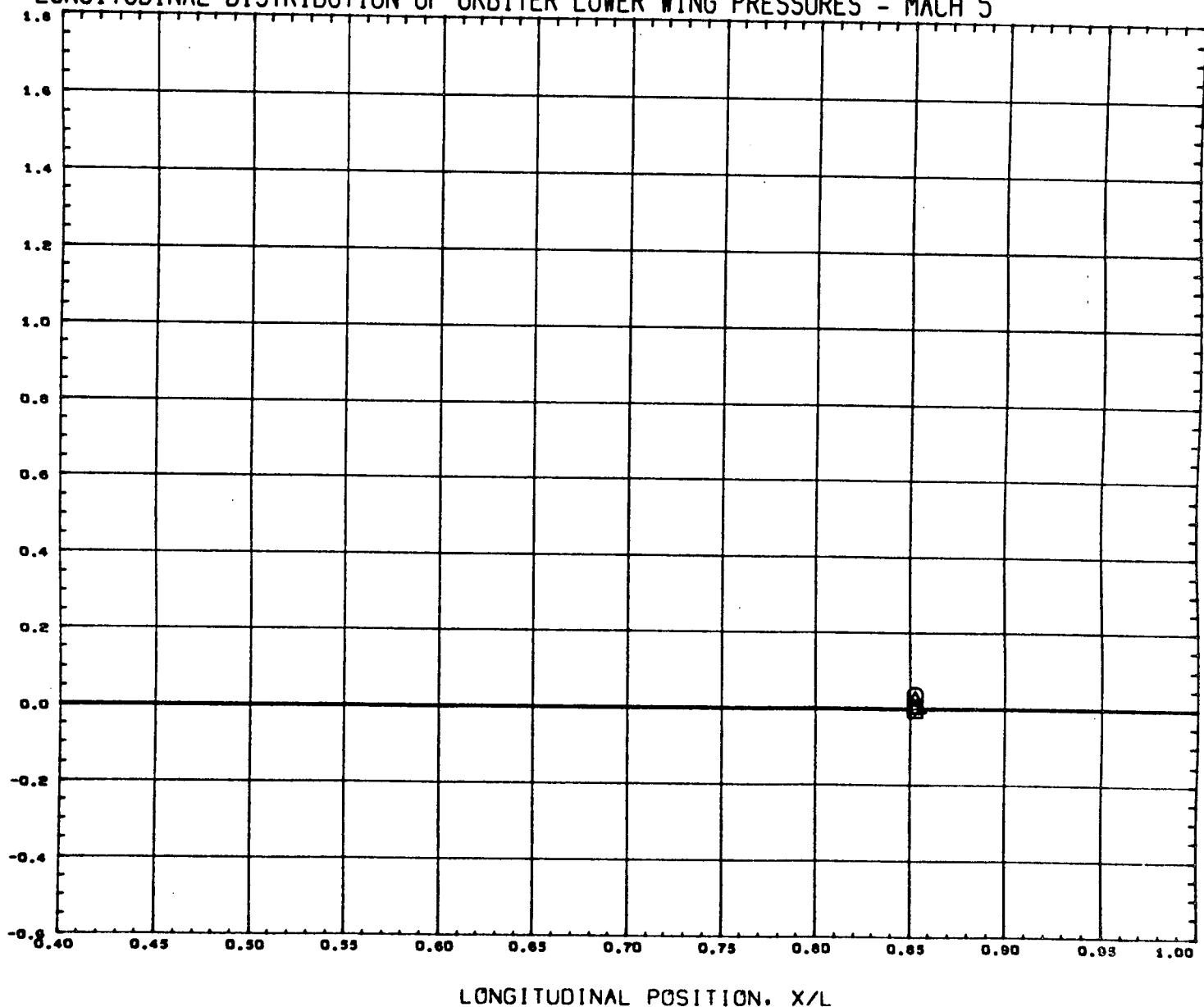
LONGITUDINAL POSITION. X/L

SYMBOL **DELTAX** **T/8** **DELTAZ**
 - 0.390 0.569 0.226
 - 0.143
 - 0.020
 0.103
 0.227
 0.390 REFERENCE FILE

PARAMETRIC VALUES
 ALPHAB = 5.090 MACH = 4.940
 ALPHAI = 0.000 ORBPOW = 100.000
 BSTPOW = 50.000

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION, X/L

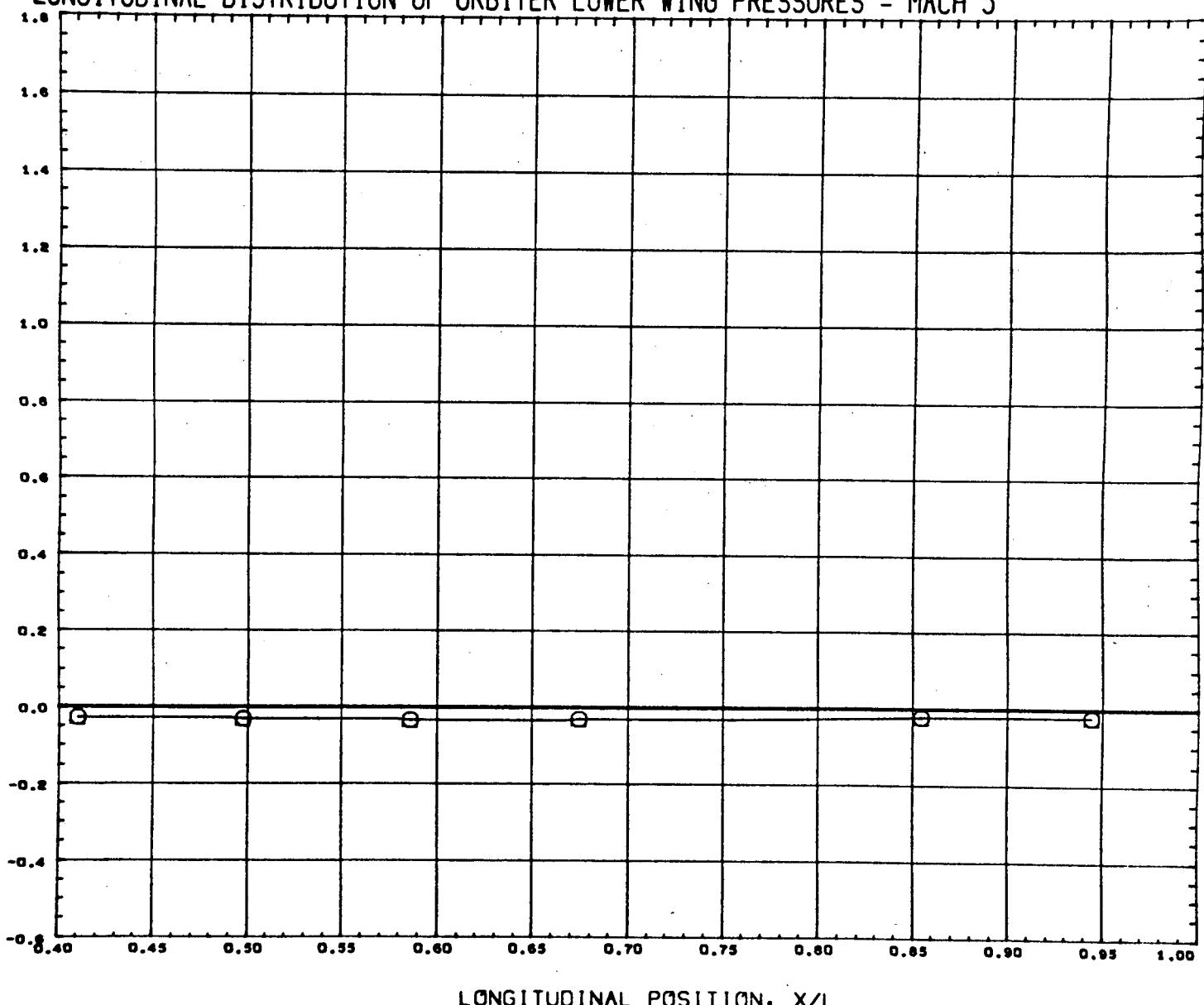
SYMBOL	DELTA X	T/B	DELTA Z
-	0.390	0.738	0.226
-	0.143		
-	0.020		
-	0.103		
-	0.227		
-	0.390		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	- 5.090	MACH	4.940
ALPHAI	0.000	ORBPOW	100.000
BSTPOW	50.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION, X/L

SYMBOL DELTAX Y/B DELTAZ
C 0.920 0.230 0.908

PARAMETRIC VALUES				
ALPHAB	=	5.090	MACH	4.940
ALPHAI	=	0.000	ORBPOW	100.000
BSTPOW	=	50.000		

REFERENCE FILE

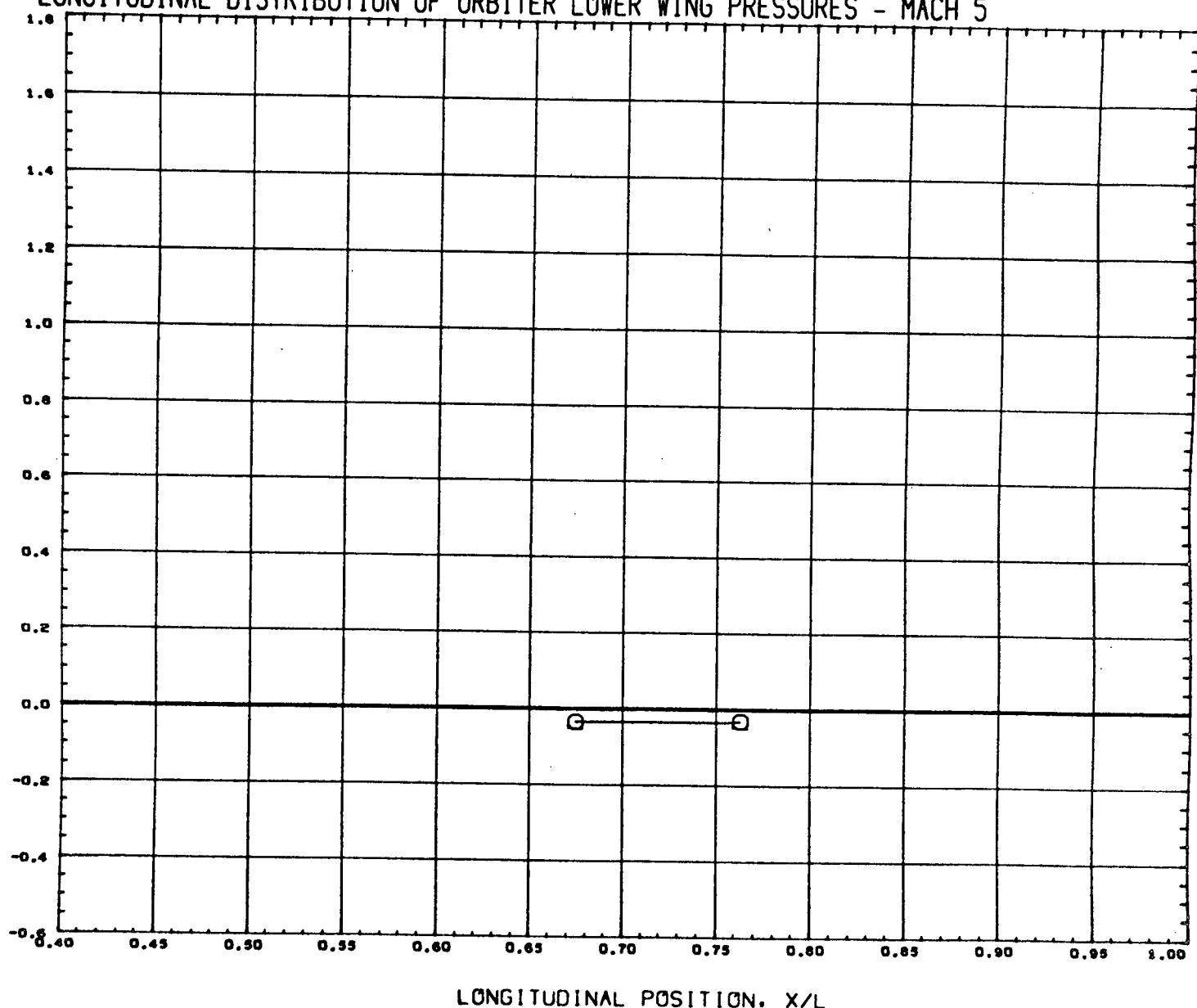
AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION, X/L

SYMBOL DELTAX Y/B DELTAZ
C 0.520 0.399 0.908

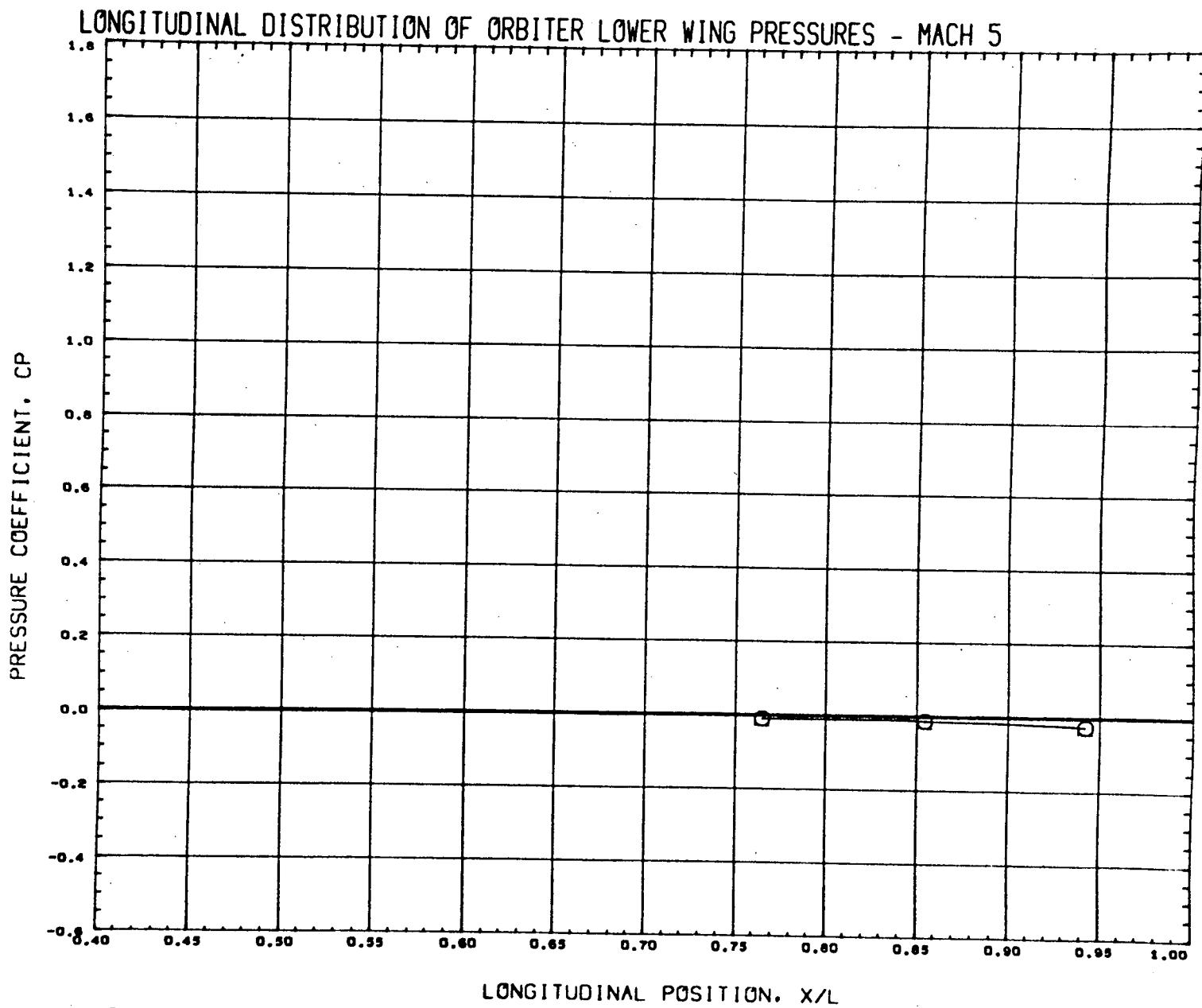
	ALPHAB	MACH	ALPHAI	ORBPOW
	5.090	4.940	0.000	100.000
			BSTPOW	50.000

REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

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REFERENCE FILE

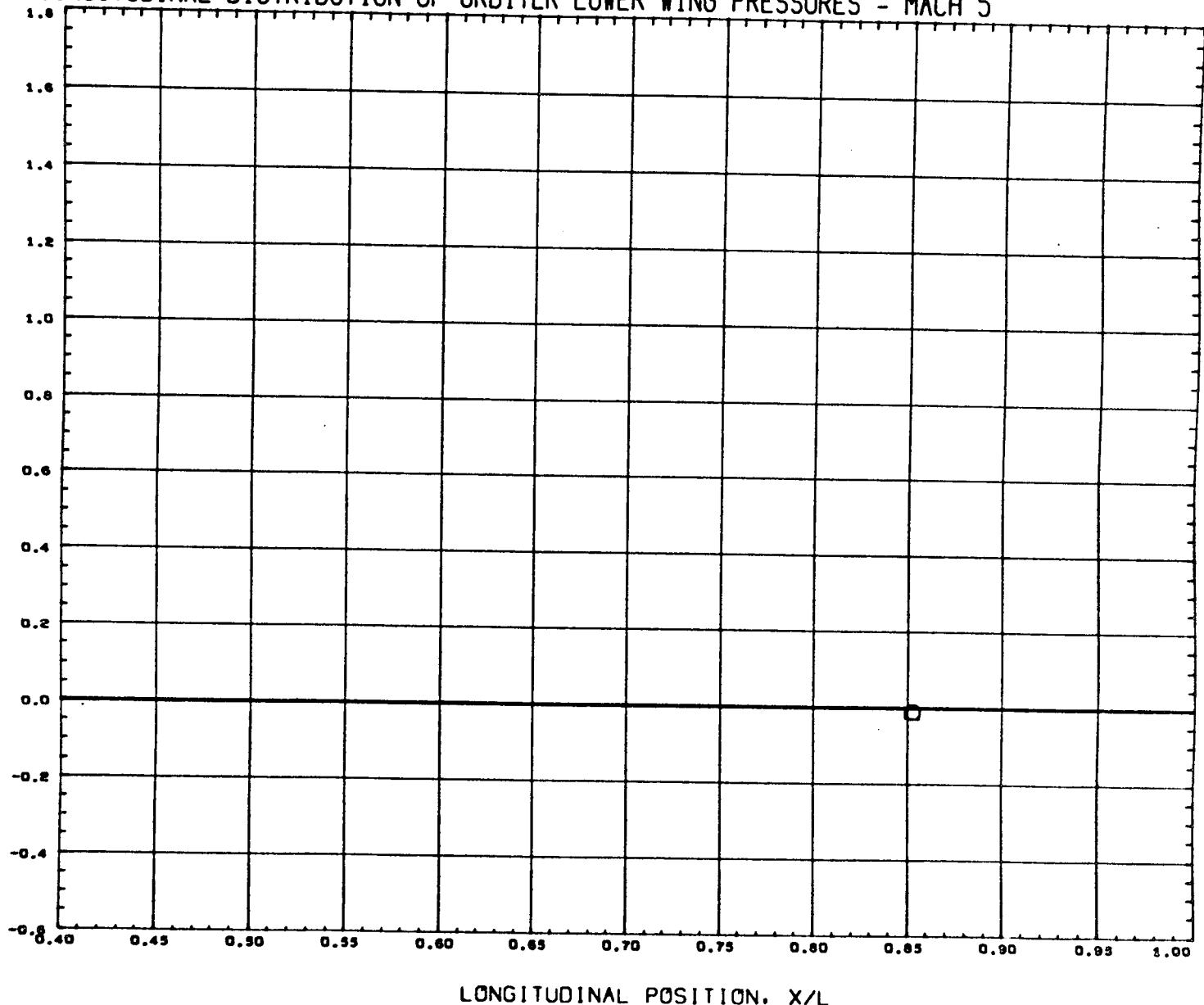
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8532•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION, X/L

SYMOL DELTAX T/2 DELTAZ
C 0.520 0.738 0.908

	ALPHAB	MACH	ORBPOW
-	5.090	4.940	
	ALPHAI	0.000	100.000
	BSTPOW	50.000	

REFERENCE FILE

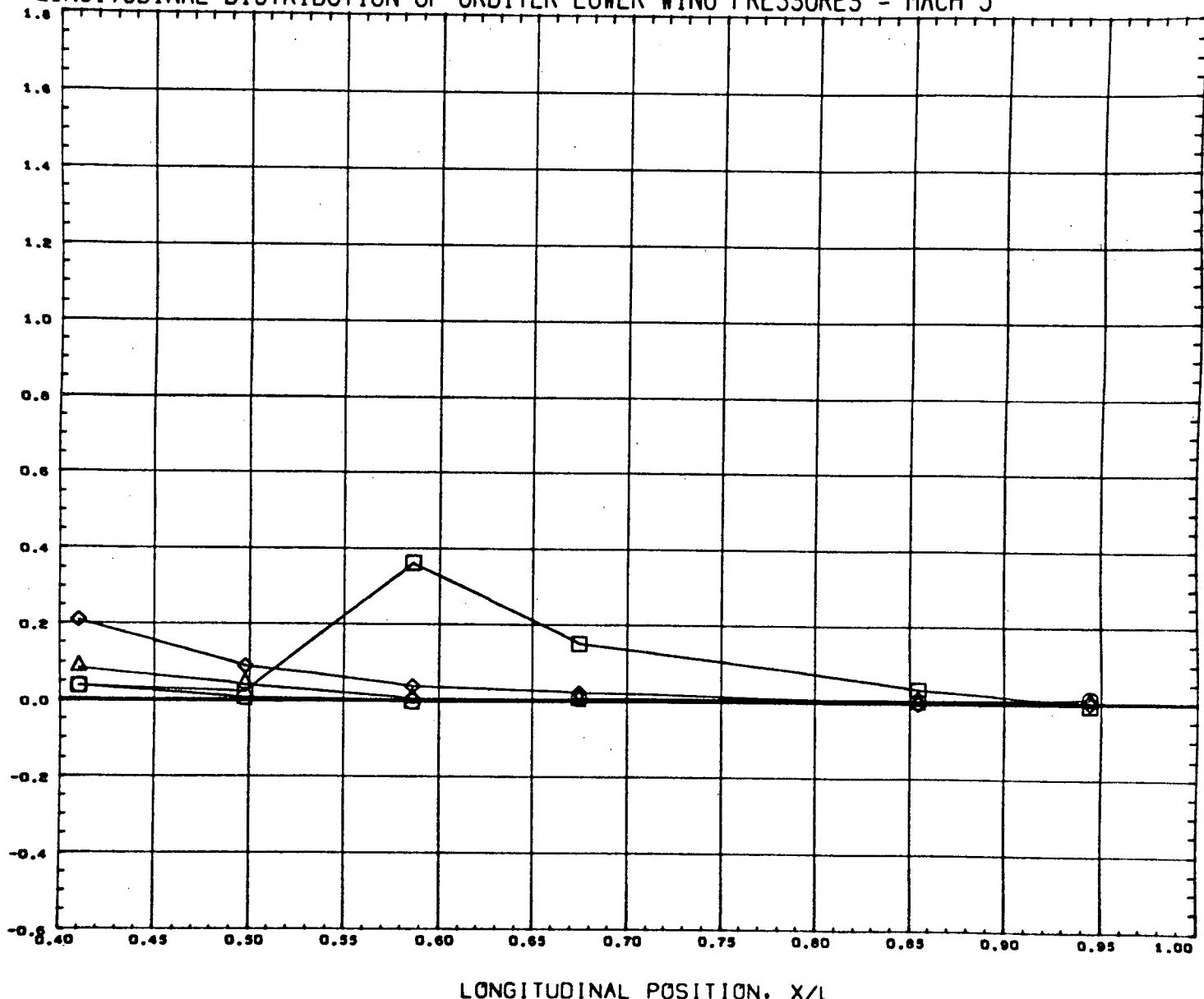
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8532•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT • CP



SYMBOL	DELTA X	T/B	DELTA Z
○	0.041	0.230	0.114
△	0.103		
◊	0.165		
□	0.350		

LONGITUDINAL POSITION. X/L

PARAMETRIC VALUES		
ALPHAB	0.039	MACH 4.940
ALPHAT	0.000	ORBPOW 100.000
BSTPOW	50.000	

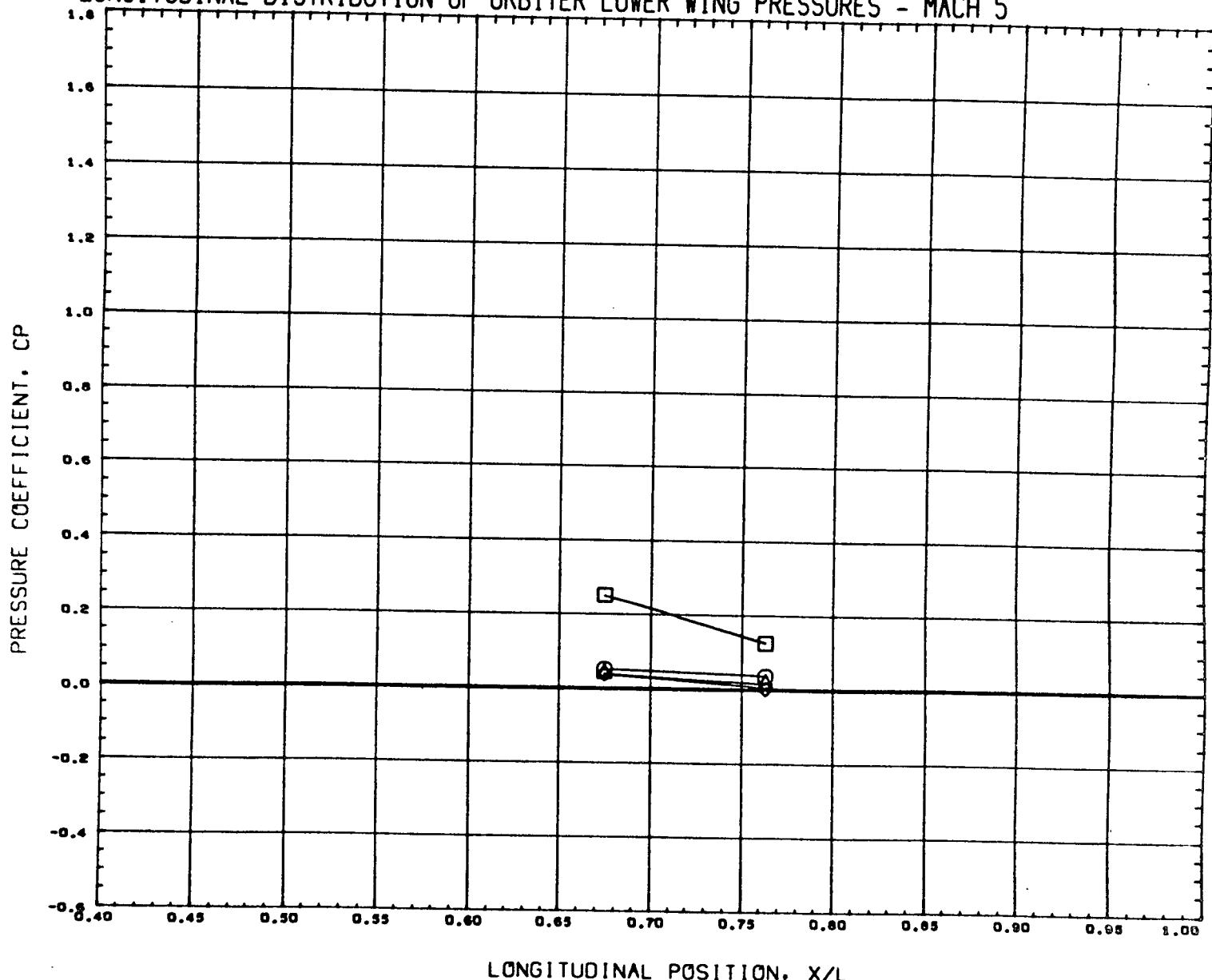
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8533•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL DELTAX Y/B DELTAZ

Δ 0.041 0.399 0.114

\diamond 0.103

\circ 0.165

\square 0.390

PARAMETRIC VALUES

ALPHAB	0.039	MACH	4.940
ALPHAI	0.000	ORBPOW	100.000
BSTPOW	50.000		

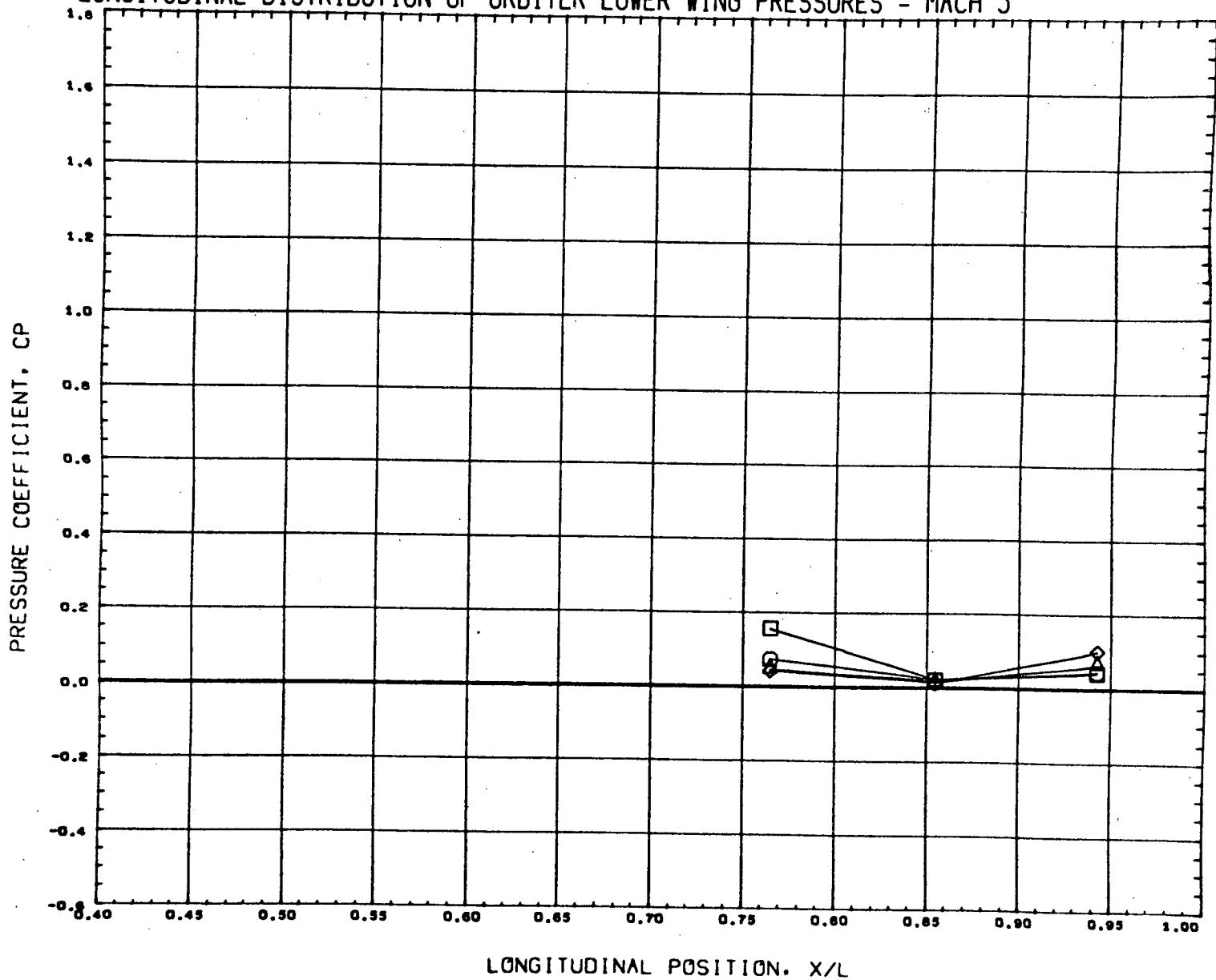
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8533•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.041	0.966	0.114
△	0.103		
◊	0.163		
□	0.350		

LONGITUDINAL POSITION. X/L

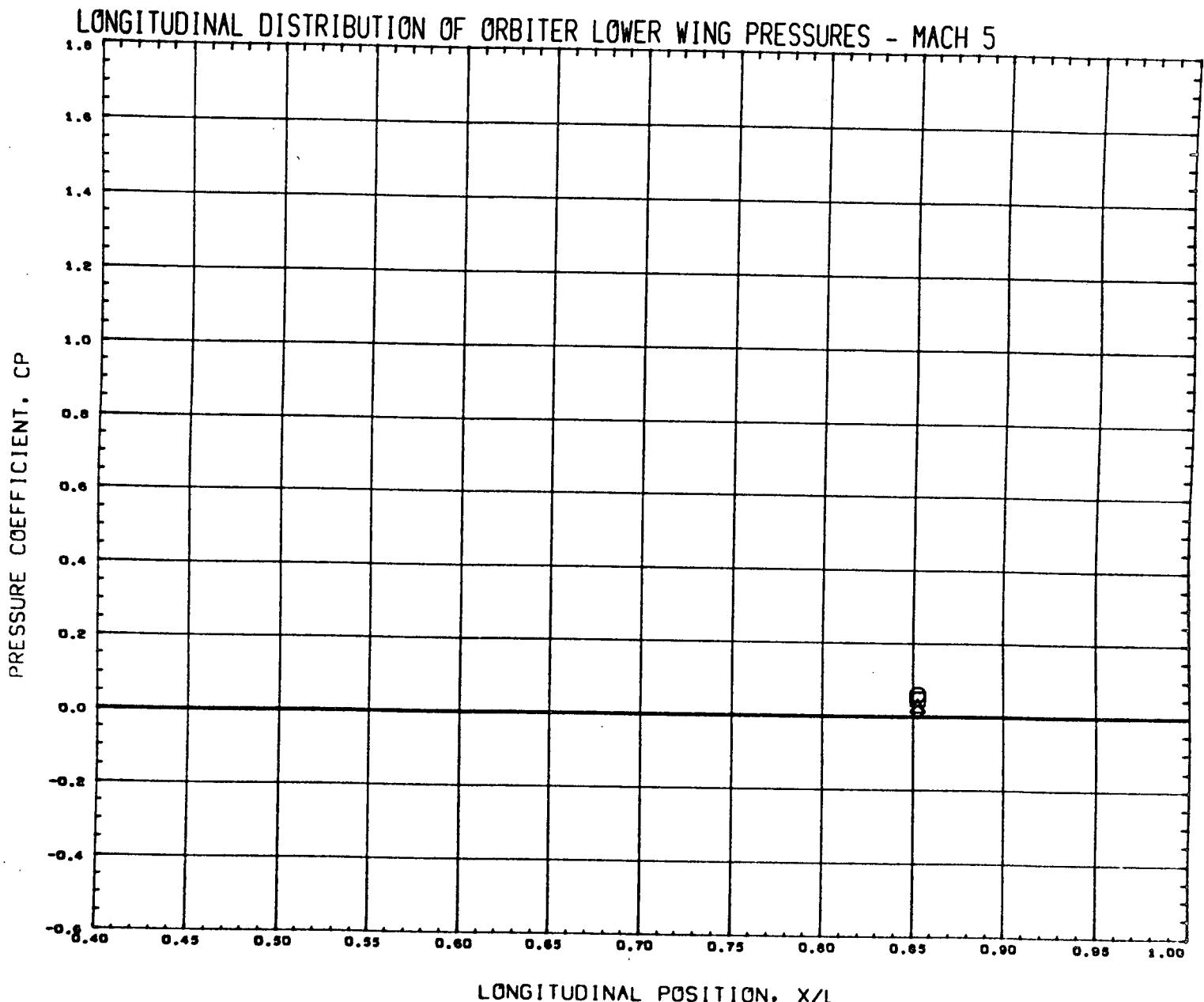
PARAMETRIC VALUES		
ALPHAB	0.039	MACH 4.940
ALPHAI	0.000	ORBPOW 100.000
BSTPOW	50.000	

REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8533•

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SYMBOL	DELTA X	T/B	DELTA Z
Δ	0.041	0.738	0.114
\diamond	0.103		
\square	0.165		
	0.330		

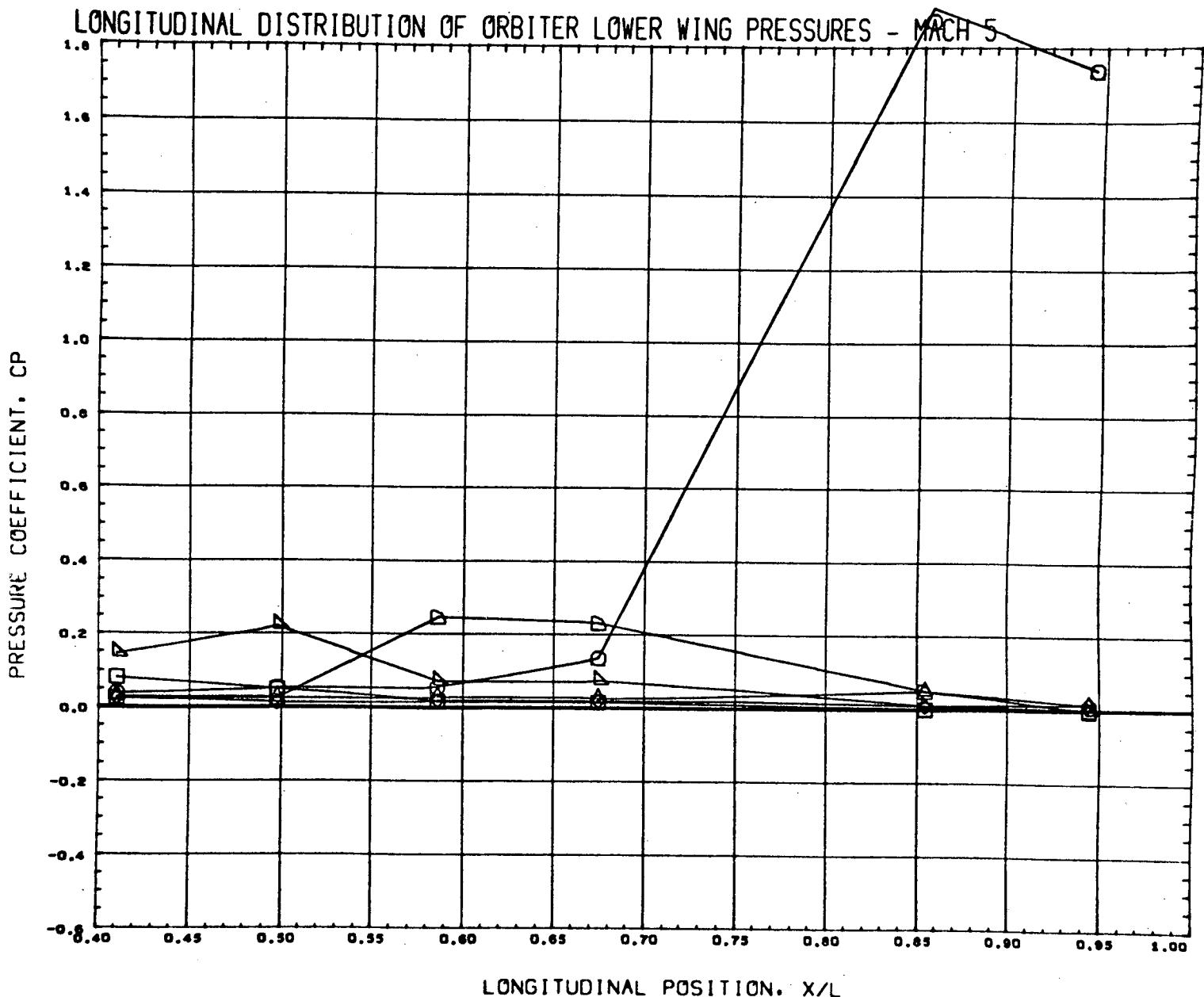
PARAMETRIC VALUES		
ALPHAB	0.039	MACH 4.040
ALPHAT	0.000	ORBPOW 100.000
BSTPOW	50.000	

REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

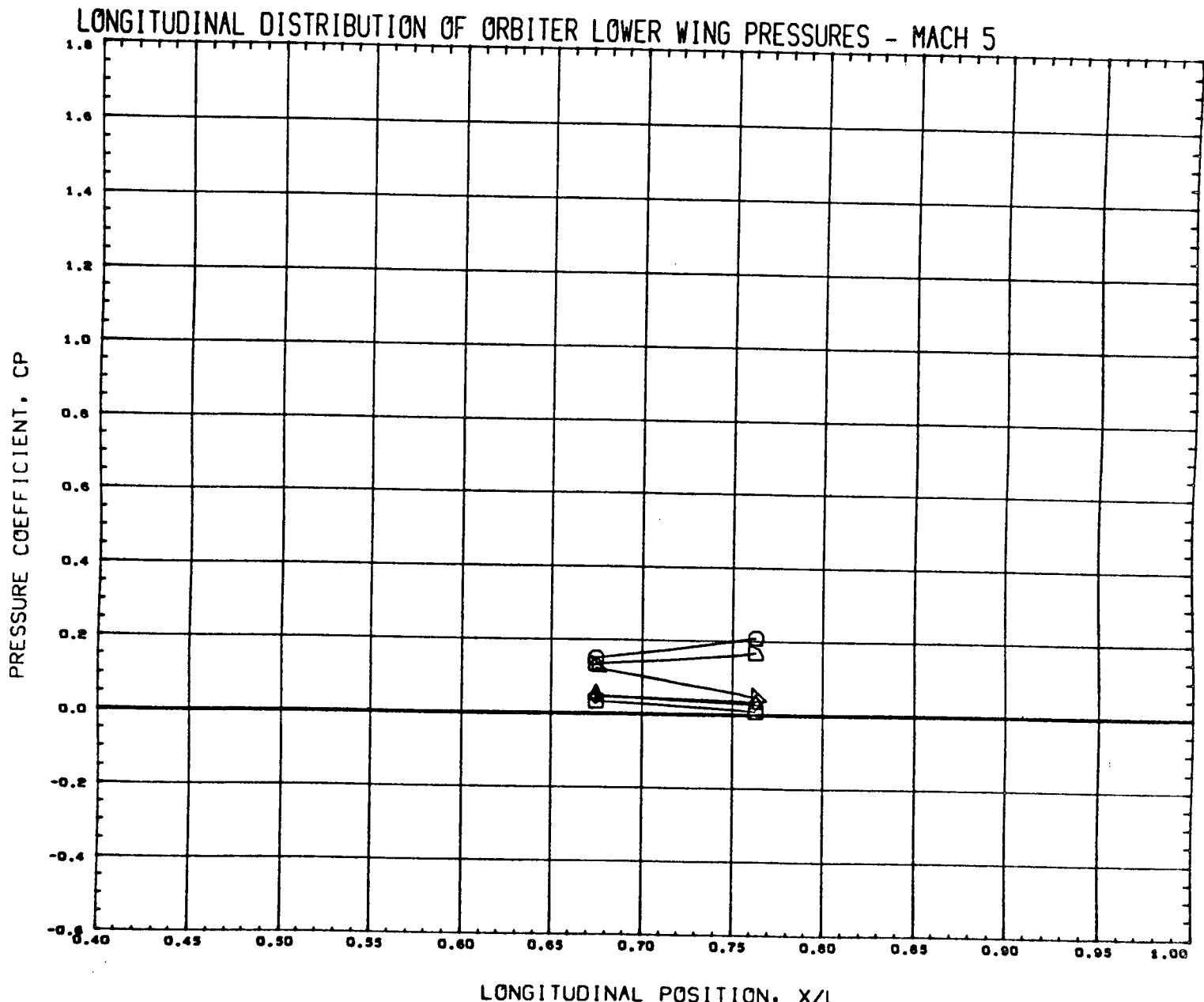
•HT8533•

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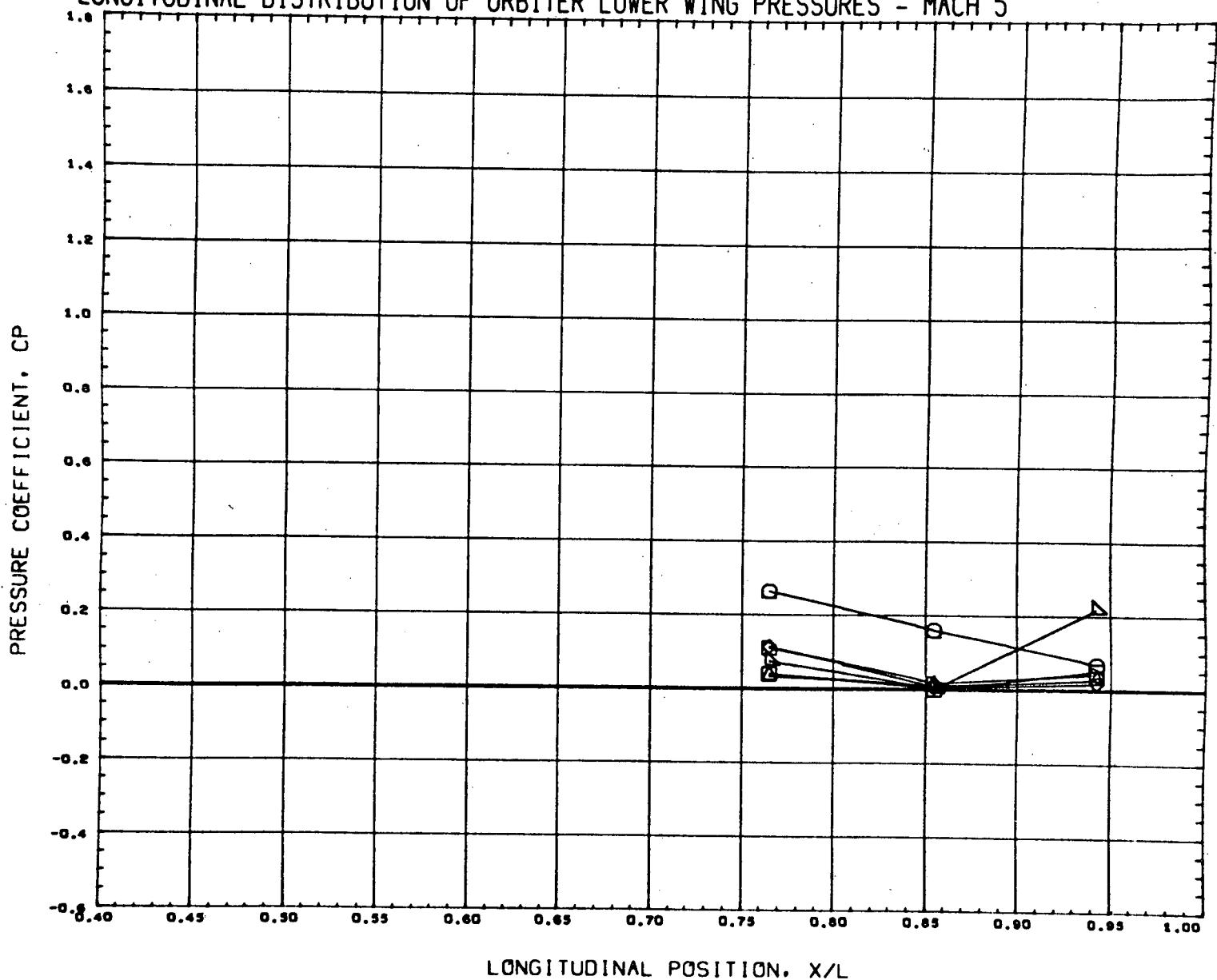
SYMBOL	DELTA X	Y/B	DELTA Z
-	0.390	0.230	0.120
-	0.143		
-	0.020		
-	0.103		
-	0.227		
-	0.350		
REFERENCE FILE			

PARAMETRIC VALUES		
ALPHAB	0.039	MACH 4.940
ALPHAI	0.000	ORBPOW 100.000
BSTPOW	50.000	



PARAMETRIC VALUES		
ALPHAB	0.039	MACH 4.940
ALPHAT	0.000	ORBPOW 100.000
BSTPOW	50.000	

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL DELTAX Y/B DELTAZ
 - 0.390 0.968 0.120
 - 0.143
 - 0.020
 0.103
 0.227
 0.350 REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

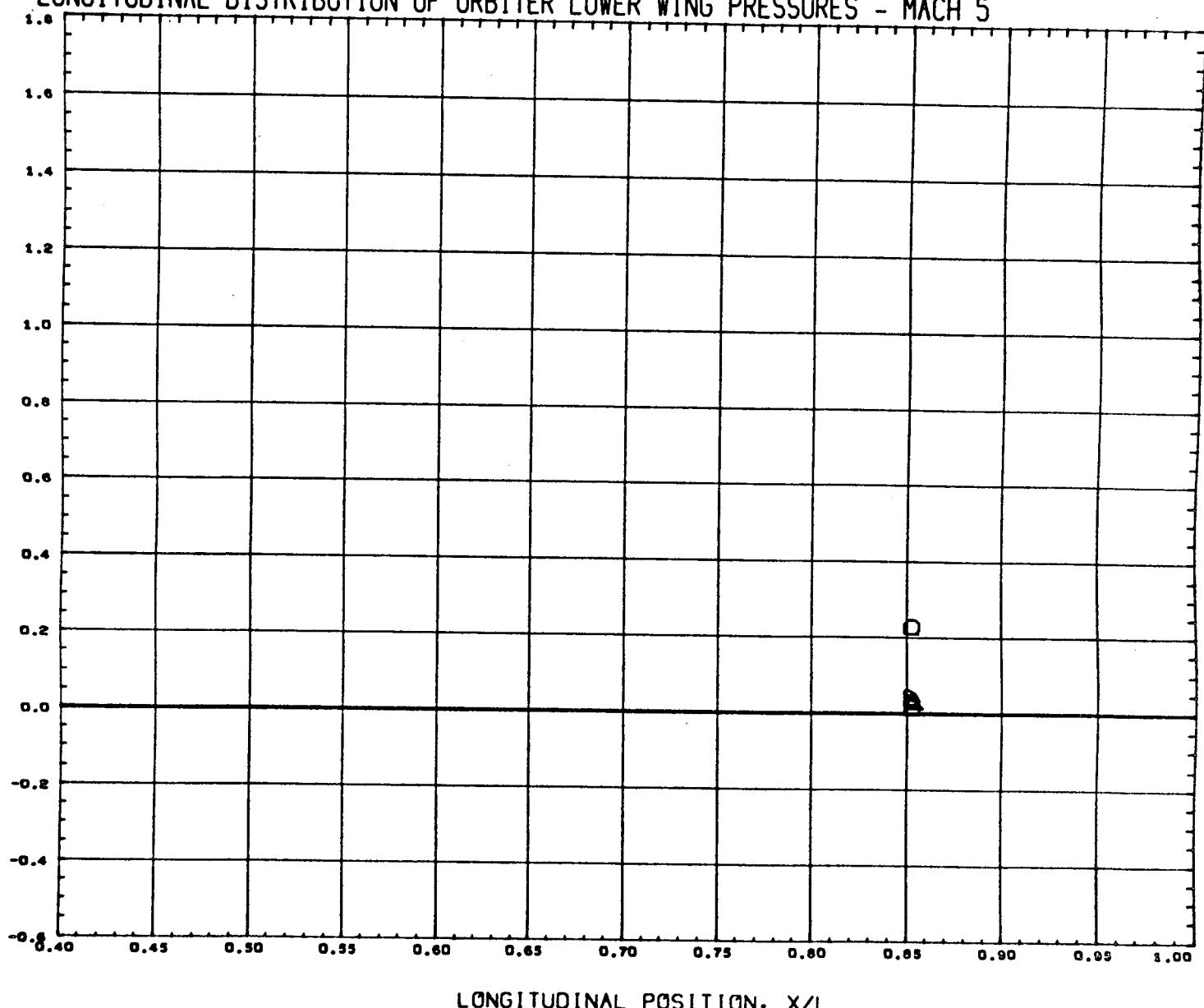
PARAMETRIC VALUES		
ALPHAB	0.039	MACH 4.940
ALPHAT	0.000	ORBPOW 100.000
BSTPOW	50.000	

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



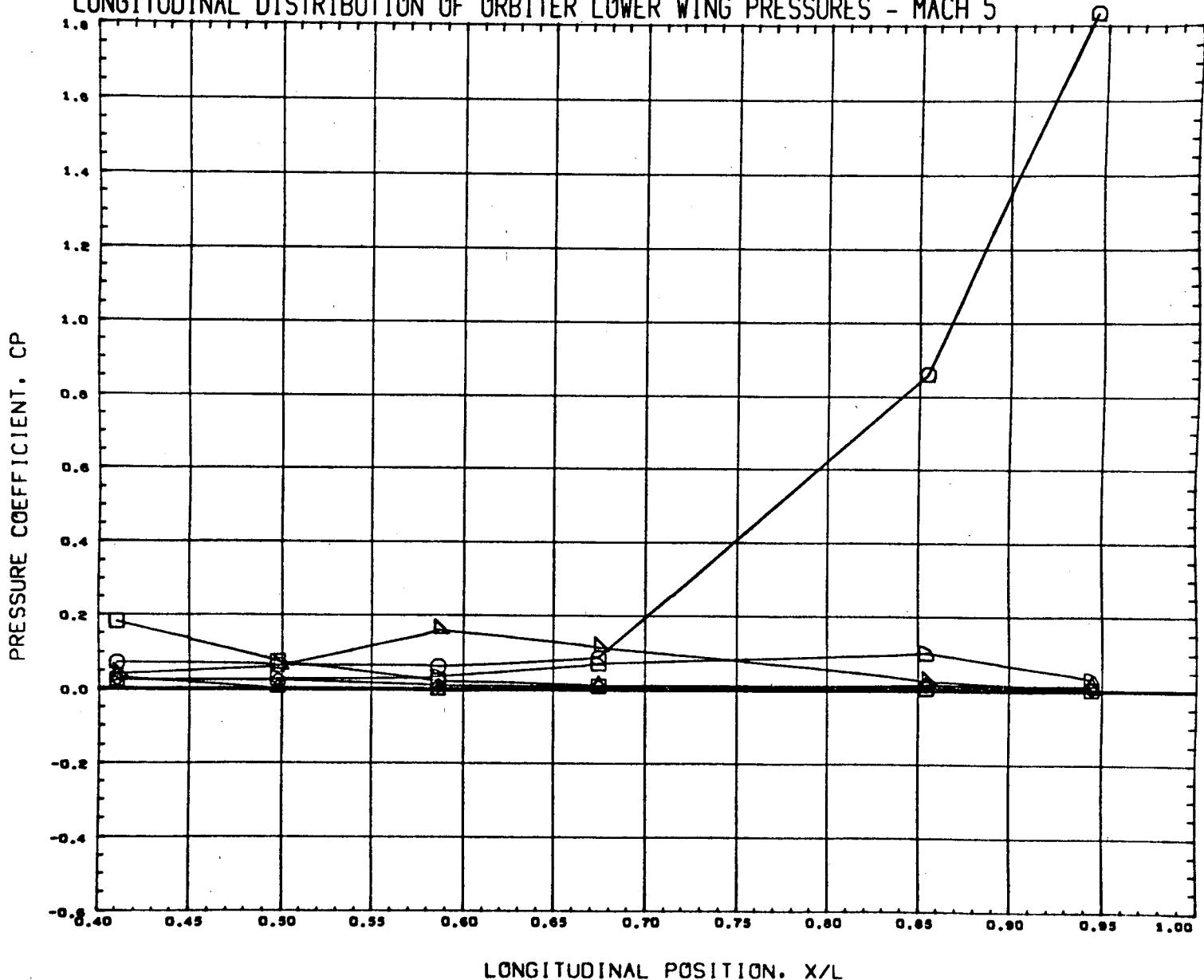
LONGITUDINAL POSITION. X/L

SYMBOL	DELTA X	Y/B	DELTA Z
D	- 0.390	0.738	0.120
D	- 0.143		
D	- 0.020		
D	0.103		
D	0.227		
D	0.390		

REFERENCE FILE

PARAMETRIC VALUES		
ALPHAB	0.039	MACH 4.940
ALPHAI	0.000	ORBPOW 100.000
BSTPOW	50.000	

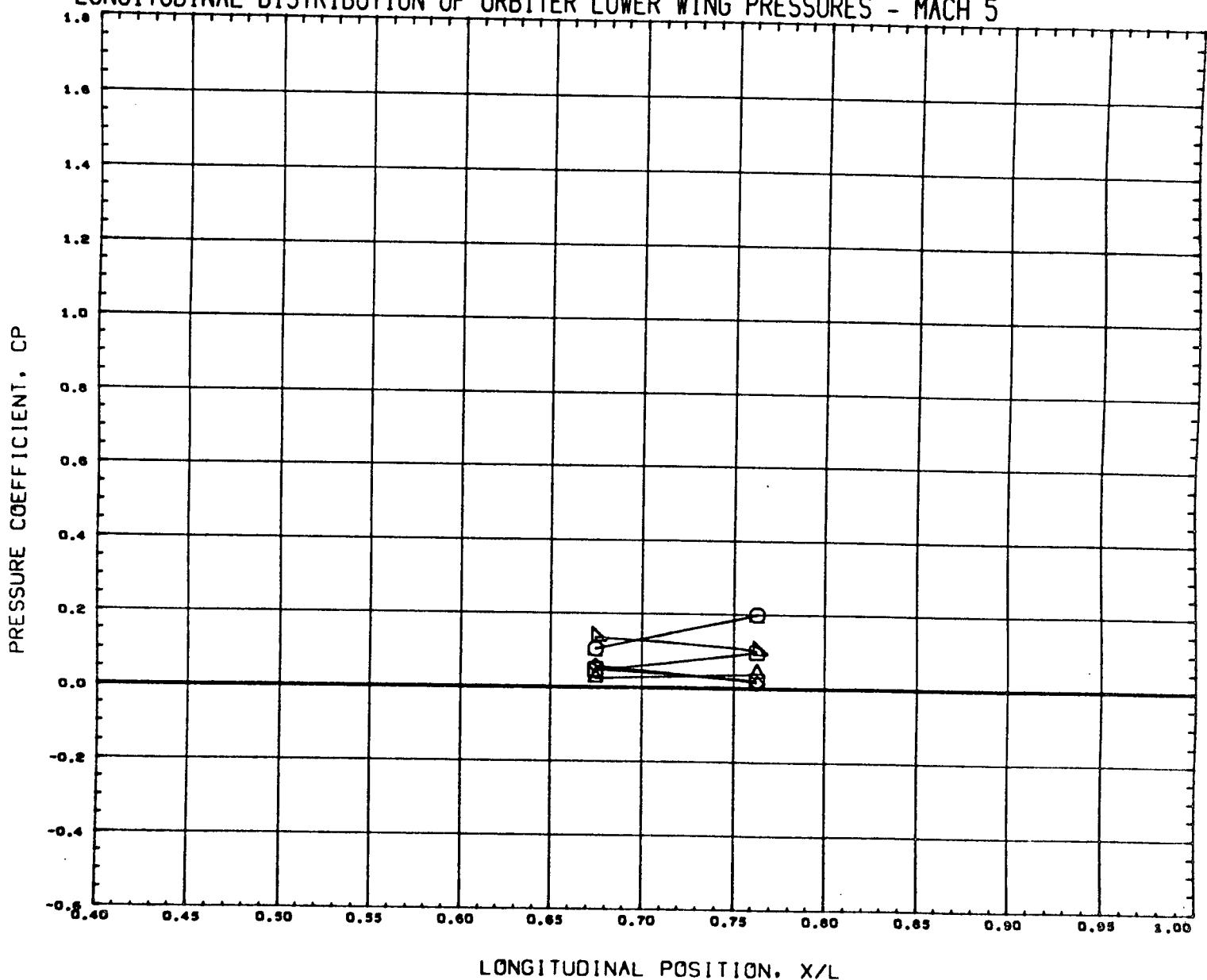
LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	- 0.390	0.230	0.151
△	- 0.143		
◊	- 0.020		
□	0.103		
▽	0.227		
▷	0.350		
REFERENCE FILE			

PARAMETRIC VALUES		
ALPHAB	0.039	MACH 4.940
ALPHAI	0.000	ORBPOW 100.000
BSTPOW	50.000	

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

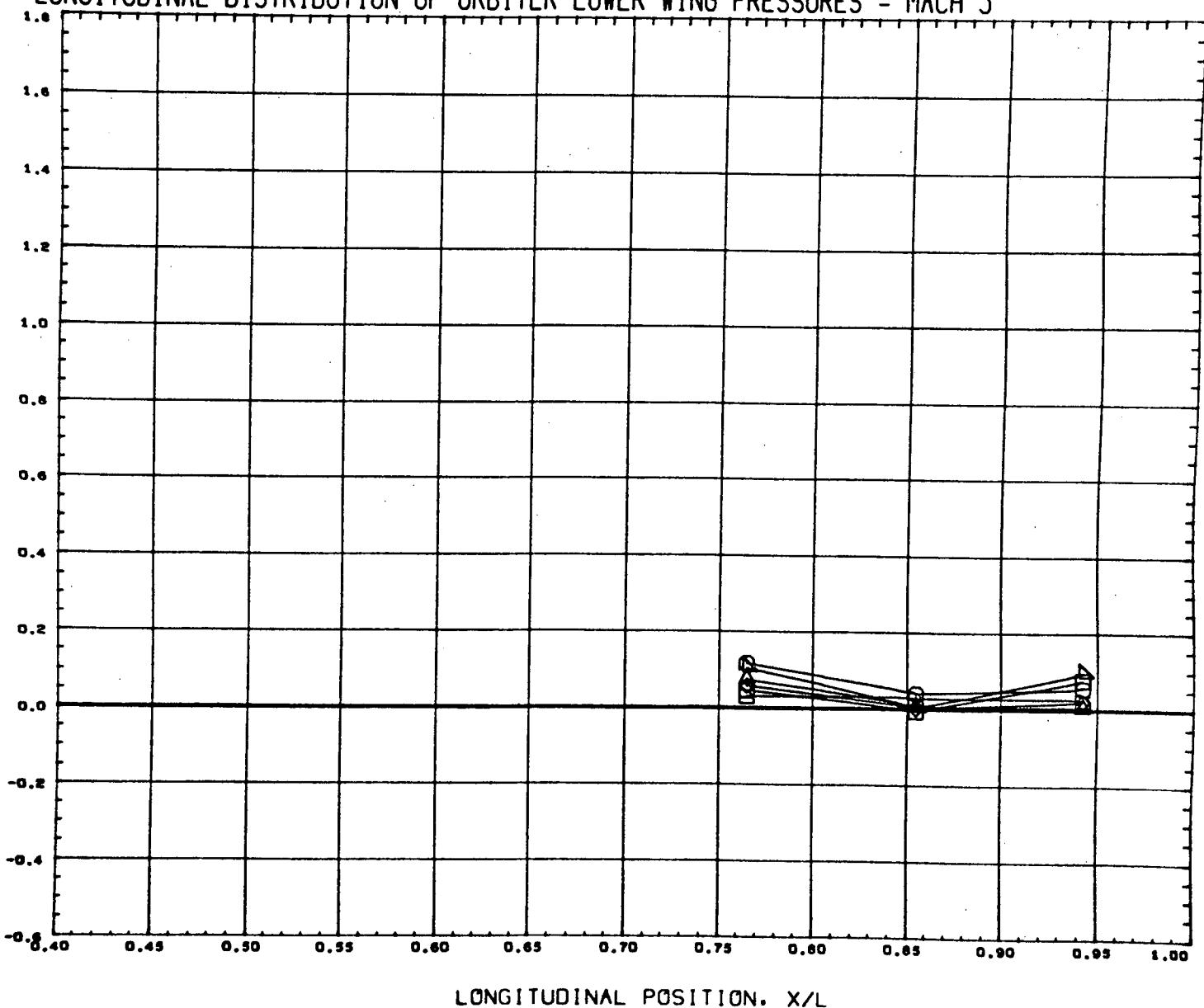


SYMBOL DELTAX Y/B DELTAZ
 - 0.390 0.399 0.151
 - 0.143
 - 0.020
 0.103
 0.227
 0.390 REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	0.039	MACH	4.940
ALPHAI	0.000	ORBPOW	100.000
BSTPOW	50.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION, X/L

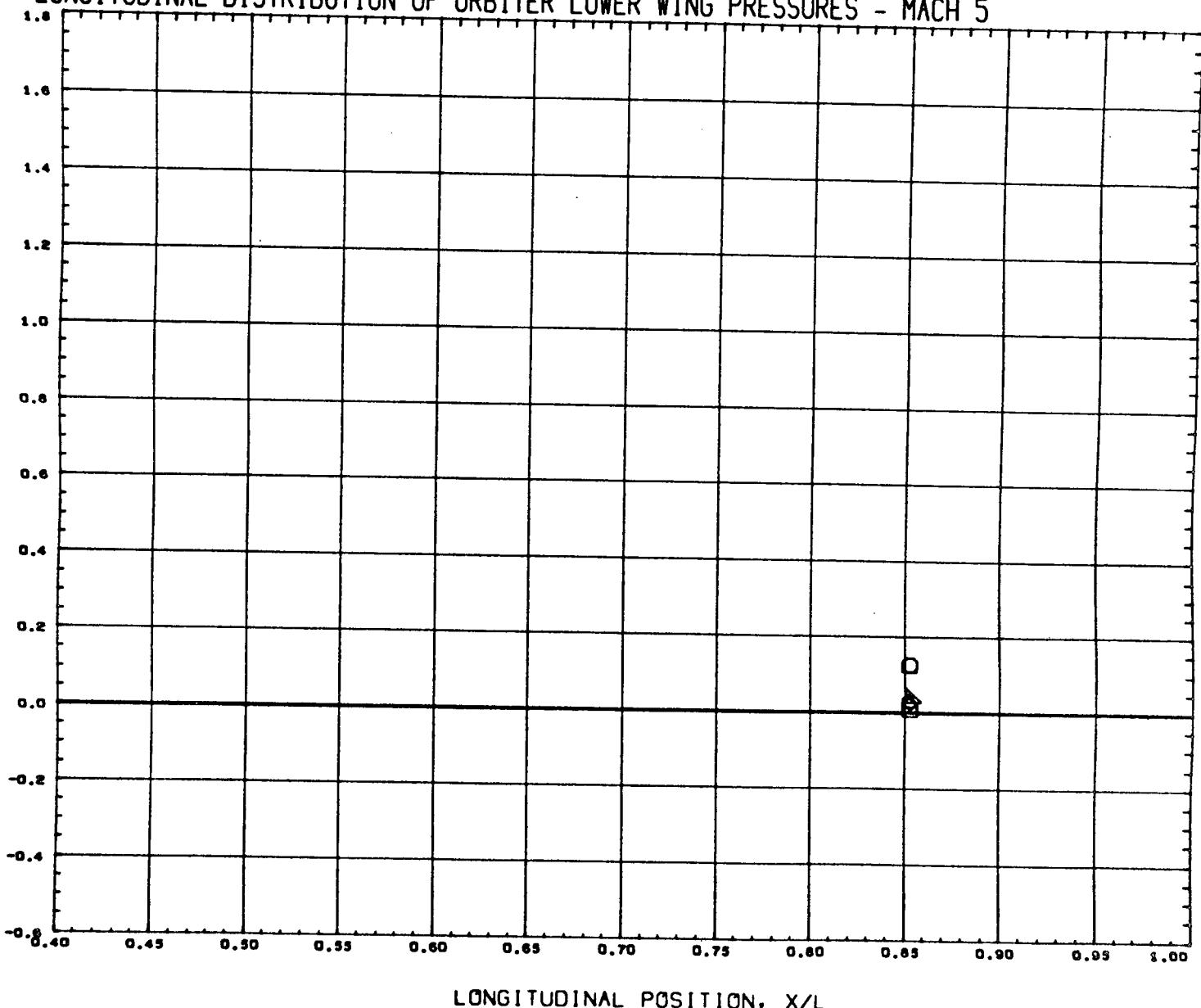
SYMBOL	DELTA X	T/B	DELTA Z
○	- 0.390	0.569	0.131
△	- 0.143		
◊	- 0.020		
◆	0.103		
▽	0.227		
□	0.350		

REFERENCE FILE

PARAMETRIC VALUES		
ALPHAB	0.039	MACH 4.940
ALPHAI	0.000	ORBPOW 100.000
BSTPOW	50.000	

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION, X/L

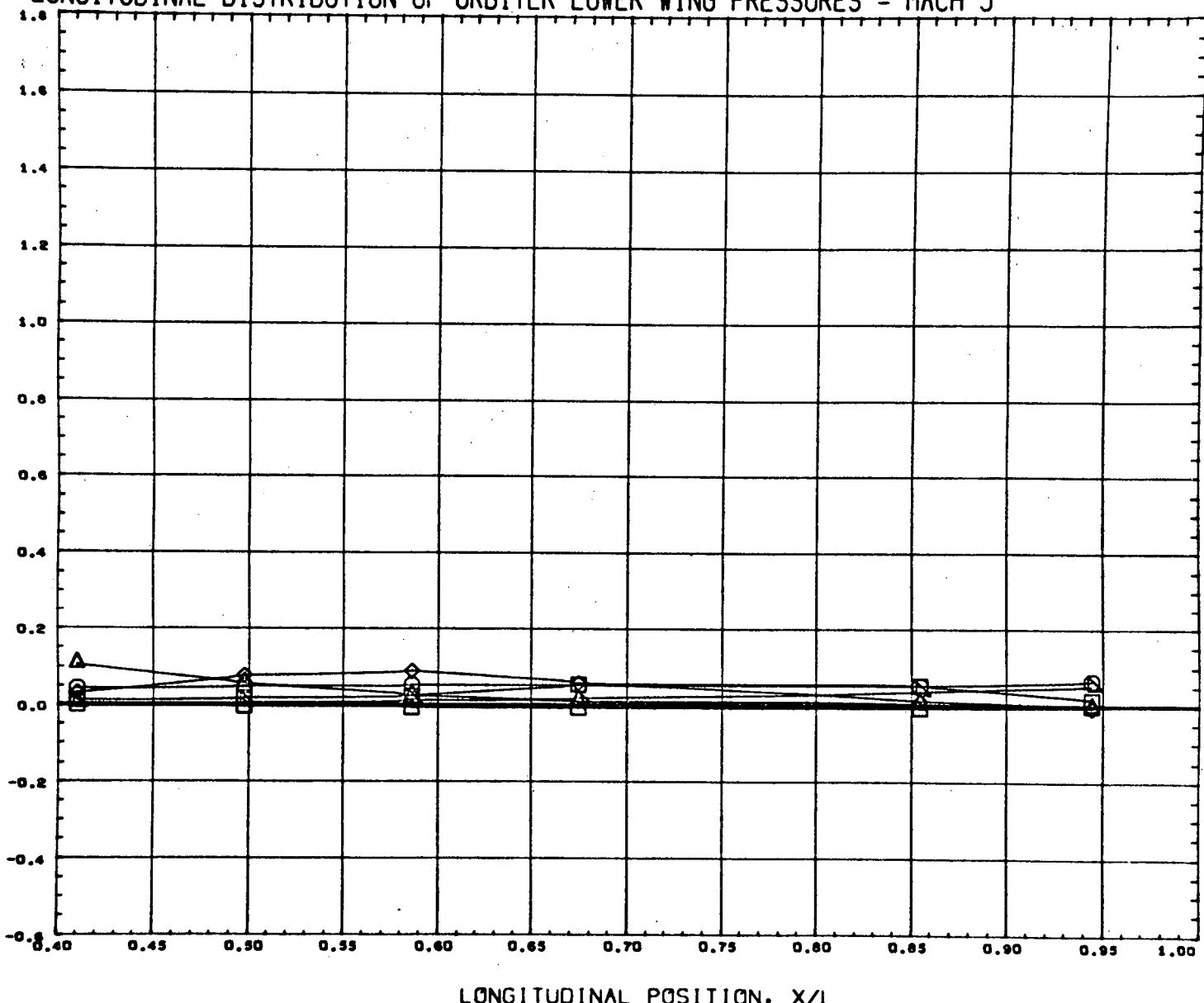
SYMBOL	DELTA X	T/8	DELTA Z
-	0.390	0.739	0.151
-	0.143		
-	0.020		
	0.103		
	0.227		
	0.350		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	0.039	MACH	4.940
ALPHAI	0.000	ORBPOW	100.000
BSTPOW	50.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION, X/L

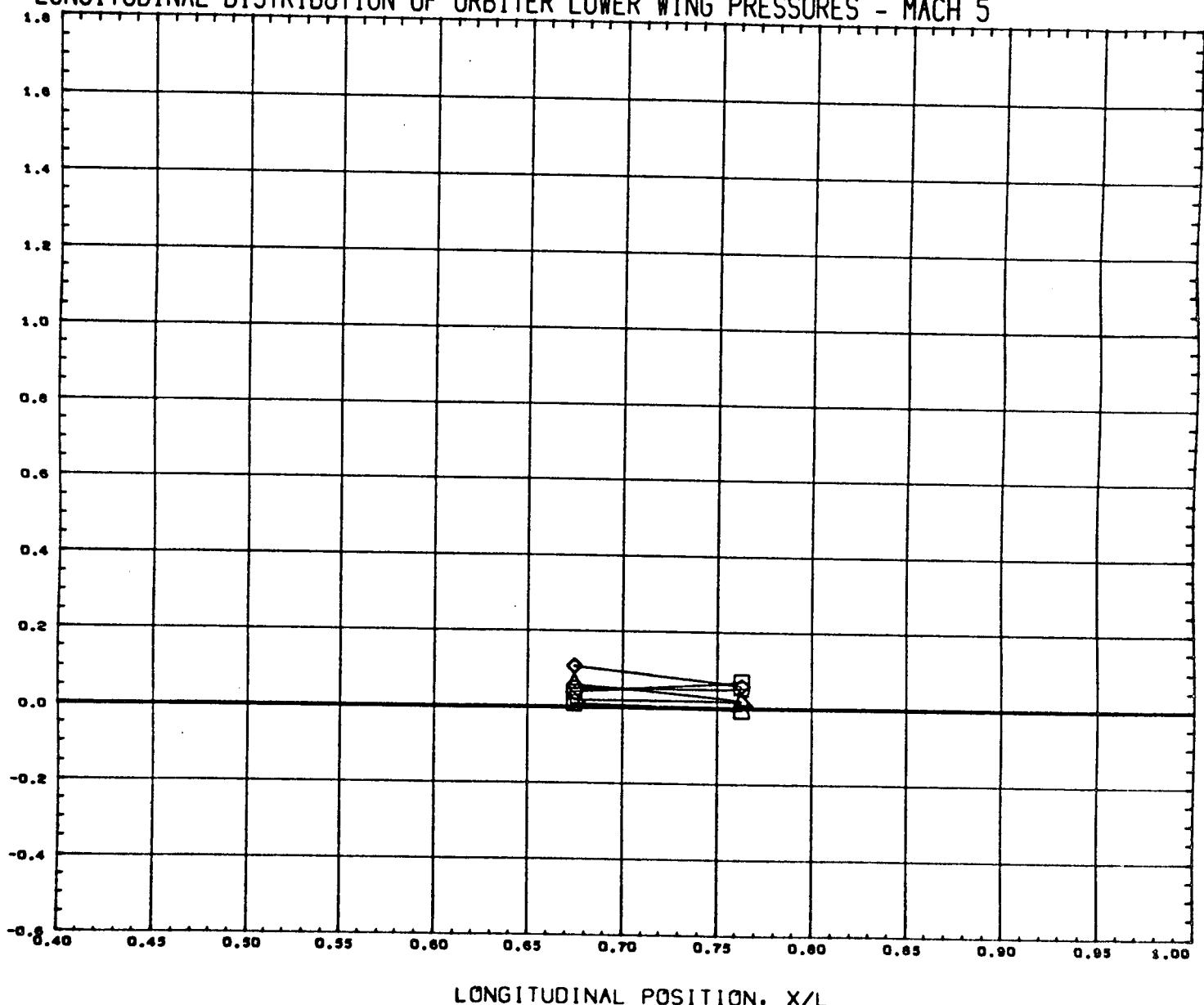
SYMBOL	DELTAX	T/B	DELTAZ
-	0.390	0.230	0.226
-	0.143		
-	0.020		
-	0.103		
-	0.227		
-	0.350		

REFERENCE FILE

PARAMETRIC VALUES		
ALPHAB	0.039	MACH 4.940
ALPHAI	0.000	ORBPOW 100,000
BBTPOW	50,000	

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



SYMBOL DELTAX Y/E DELTAZ
 □ 0.390 0.399 0.228
 ▲ 0.143
 × 0.020
 ◆ 0.103
 ◇ 0.227
 ○ 0.390 REFERENCE FILE

LONGITUDINAL POSITION. X/L

PARAMETRIC VALUES			
ALPHAB	0.039	MACH	4.940
ALPHAI	0.000	ORBPOW	100.000
BSTPOW	50.000		

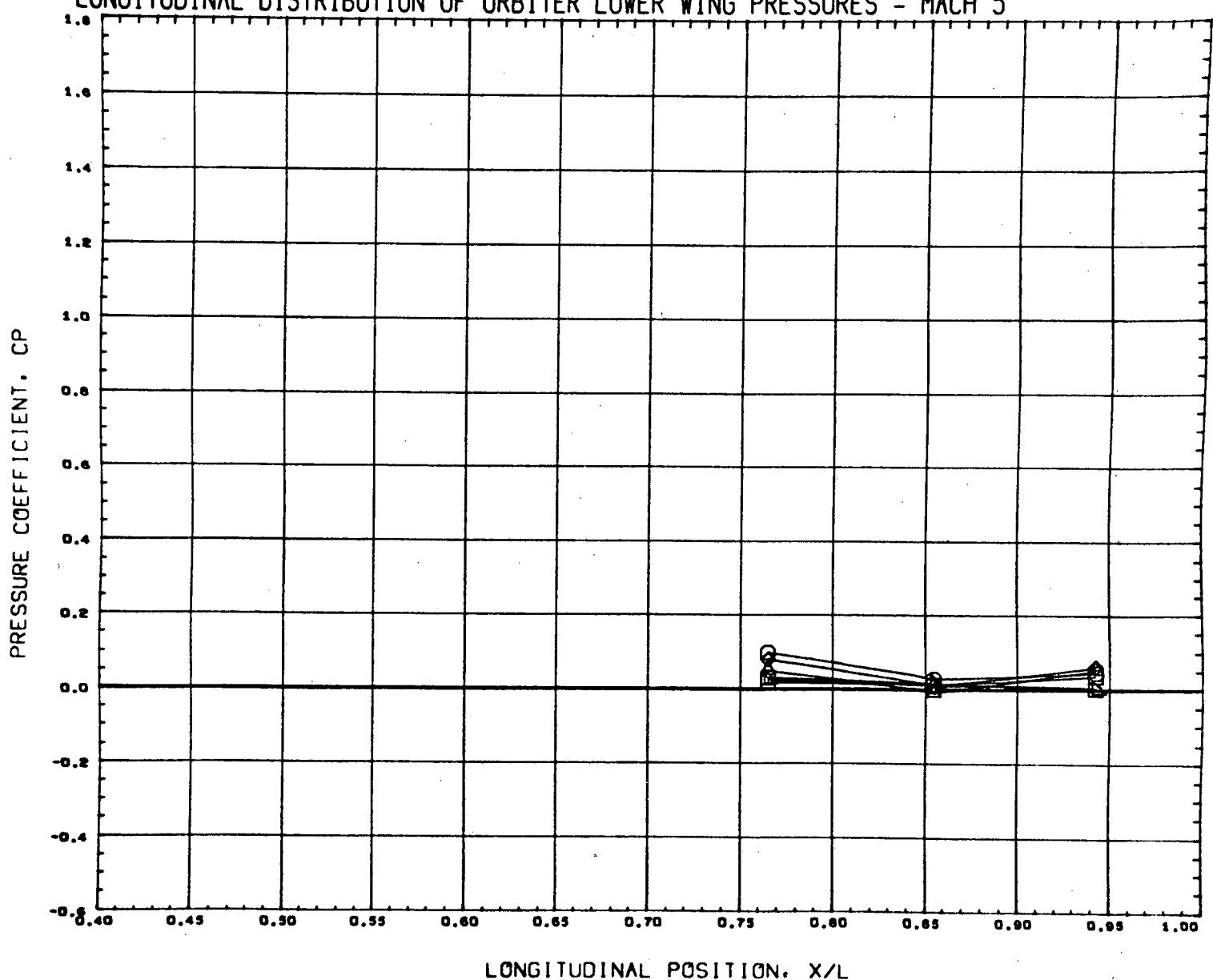
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8533•

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C.S.

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL DELTAX Y/E DELTAZ
 - 0.390 0.568 0.226
 - 0.143
 ◊ 0.020
 ◇ 0.103
 □ 0.227
 △ 0.390 REFERENCE FILE

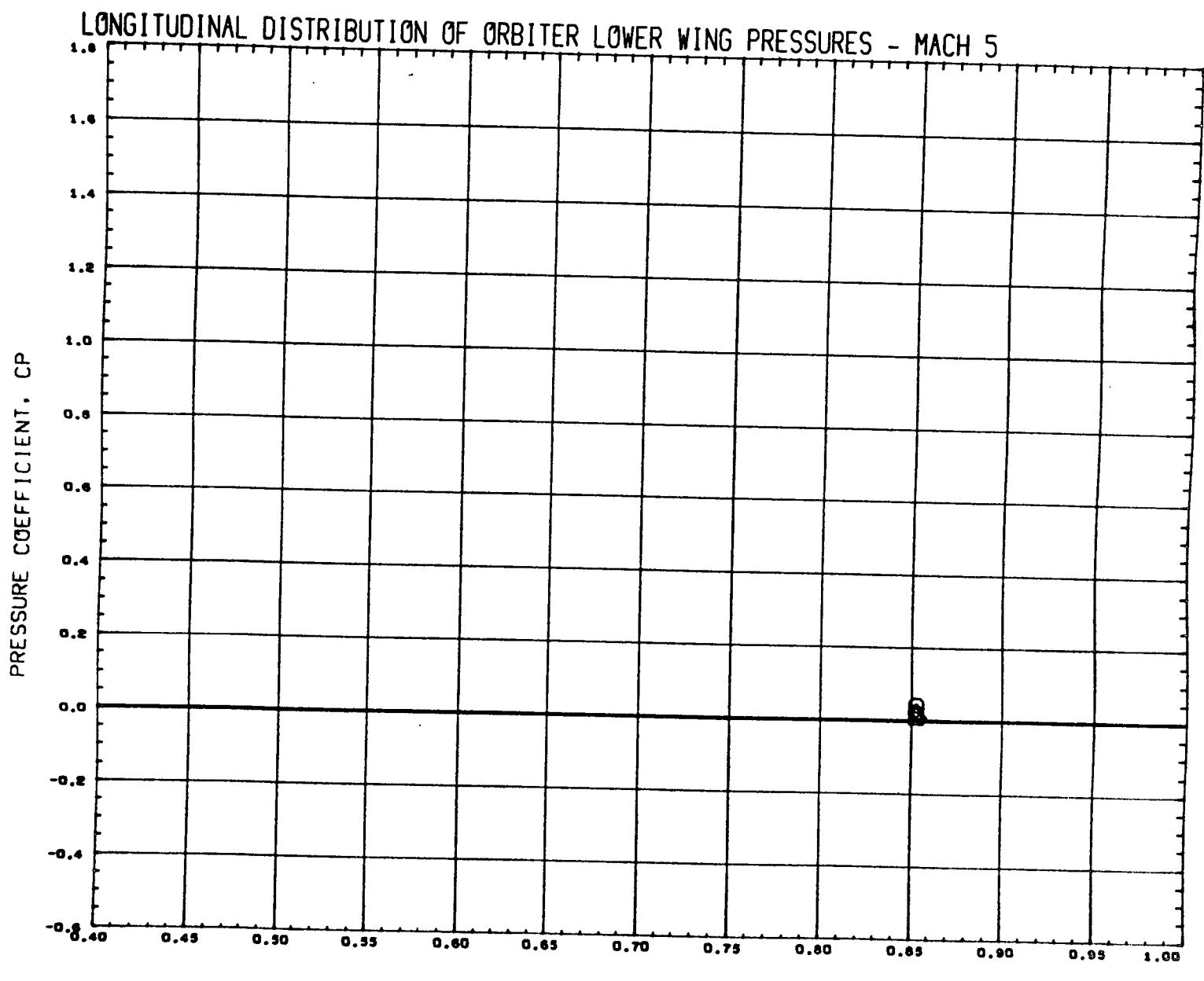
AEDC VA1163 MDAC ORBITER (LOWER WING)

LONGITUDINAL POSITION. X/L

PARAMETRIC VALUES		
ALPHAB	0.039	MACH 4.940
ALPHAI	0.000	ORBPOW 100.000
BSTPOW	50.000	

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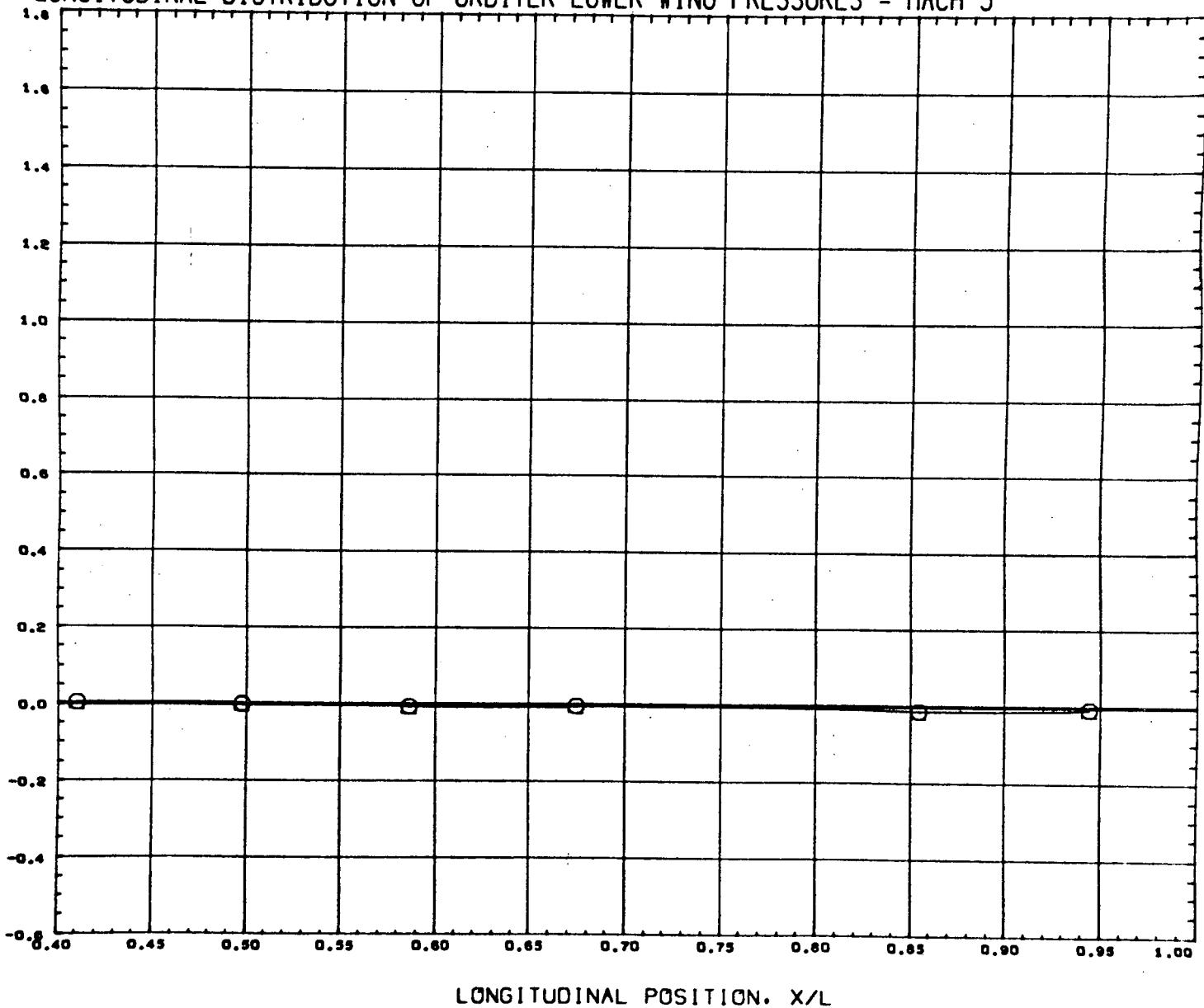


SYMBOL DELTAX Y/B DELTAZ
 - 0.390 0.739 0.228
 - 0.143
 - 0.020
 0.103
 0.227
 0.350 REFERENCE FILE

PARAMETRIC VALUES
 ALPHAB 0.039 MACH 4.940
 ALPHAT 0.000 ORBPOW 100.000
 BSTPOW 50.000

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



LONGITUDINAL POSITION. X/L

SYMBOL DELTAX Y/E DELTAZ
C 0.920 0.230 0.908

PARAMETRIC VALUES		
ALPHAB	0.039	MACH 4.940
ALPHAI	0.000	ORBPOW 100.000
BSTPOW	50.000	

REFERENCE FILE

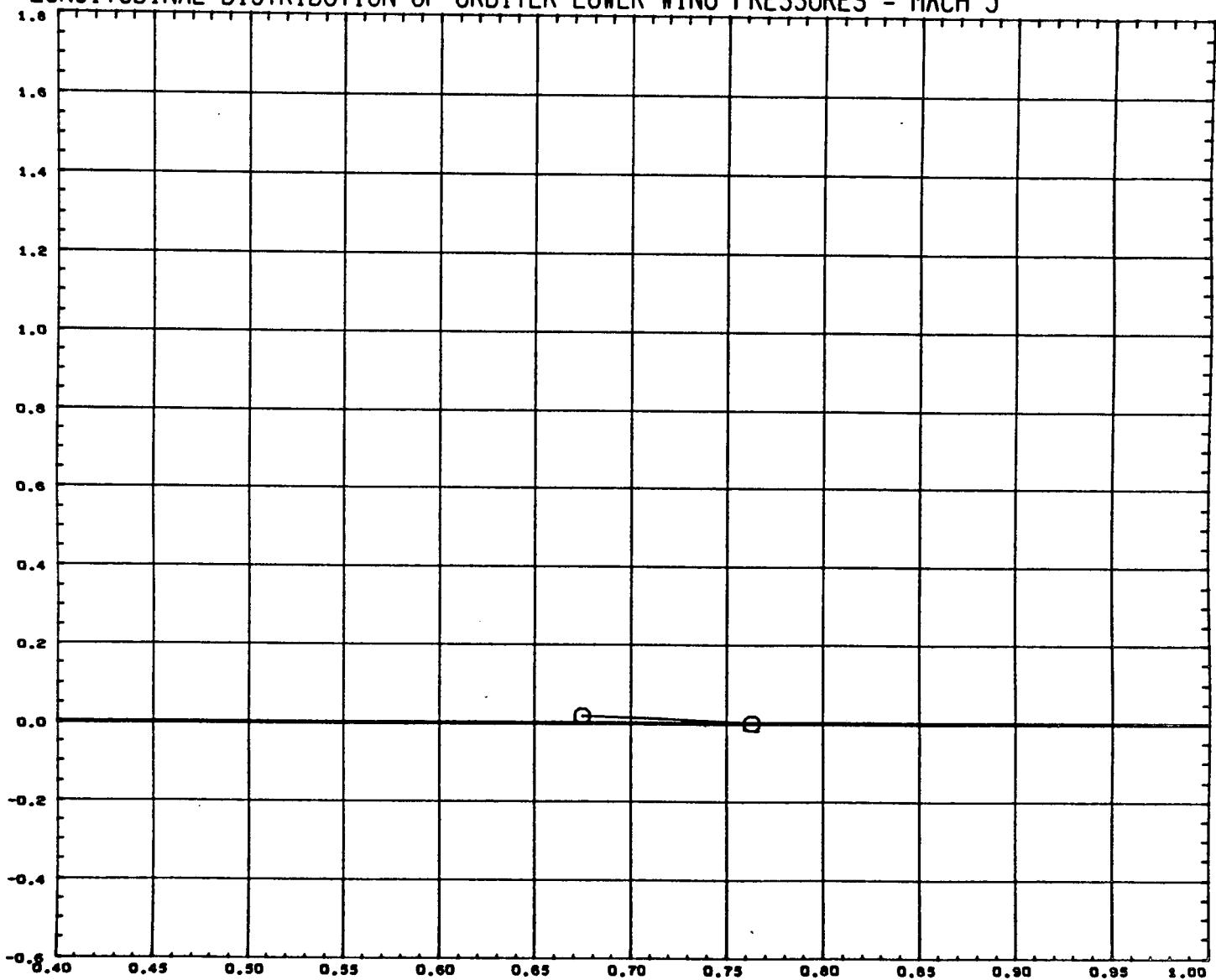
AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
C	0.320	0.399	0.908

PARAMETRIC VALUES			
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ALPHAI	0.000	ORBPOW	100.000
BSTPOW	50.000		

REFERENCE FILE

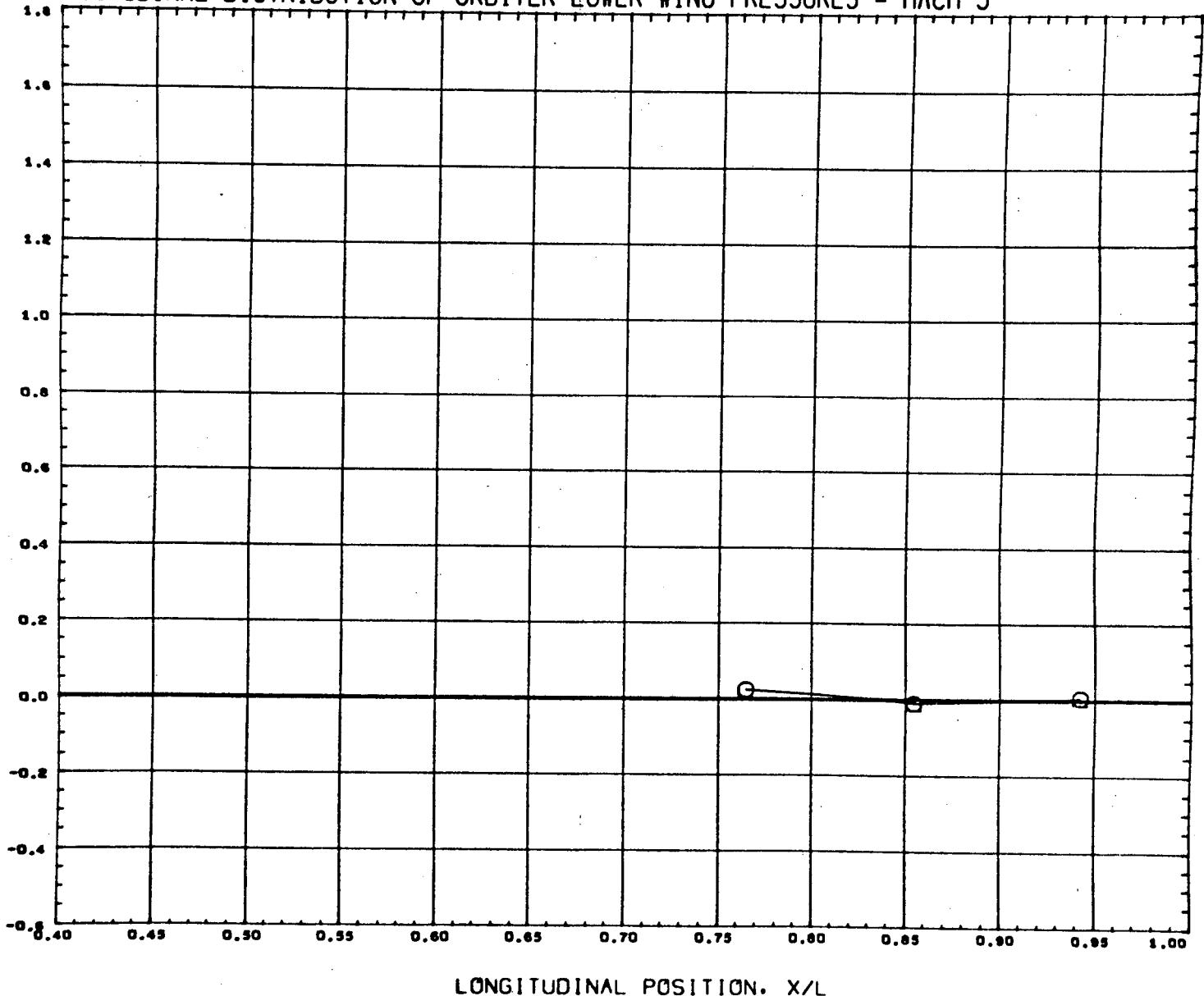
AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL DELTAX Y/E DELTAZ
C 0.920 0.568 0.908

PARAMETRIC VALUES
ALPHAB 0.039 MACH 4.940
ALPHAI 0.000 ORBPOW 100.000
BSTPOW 50.000

REFERENCE FILE

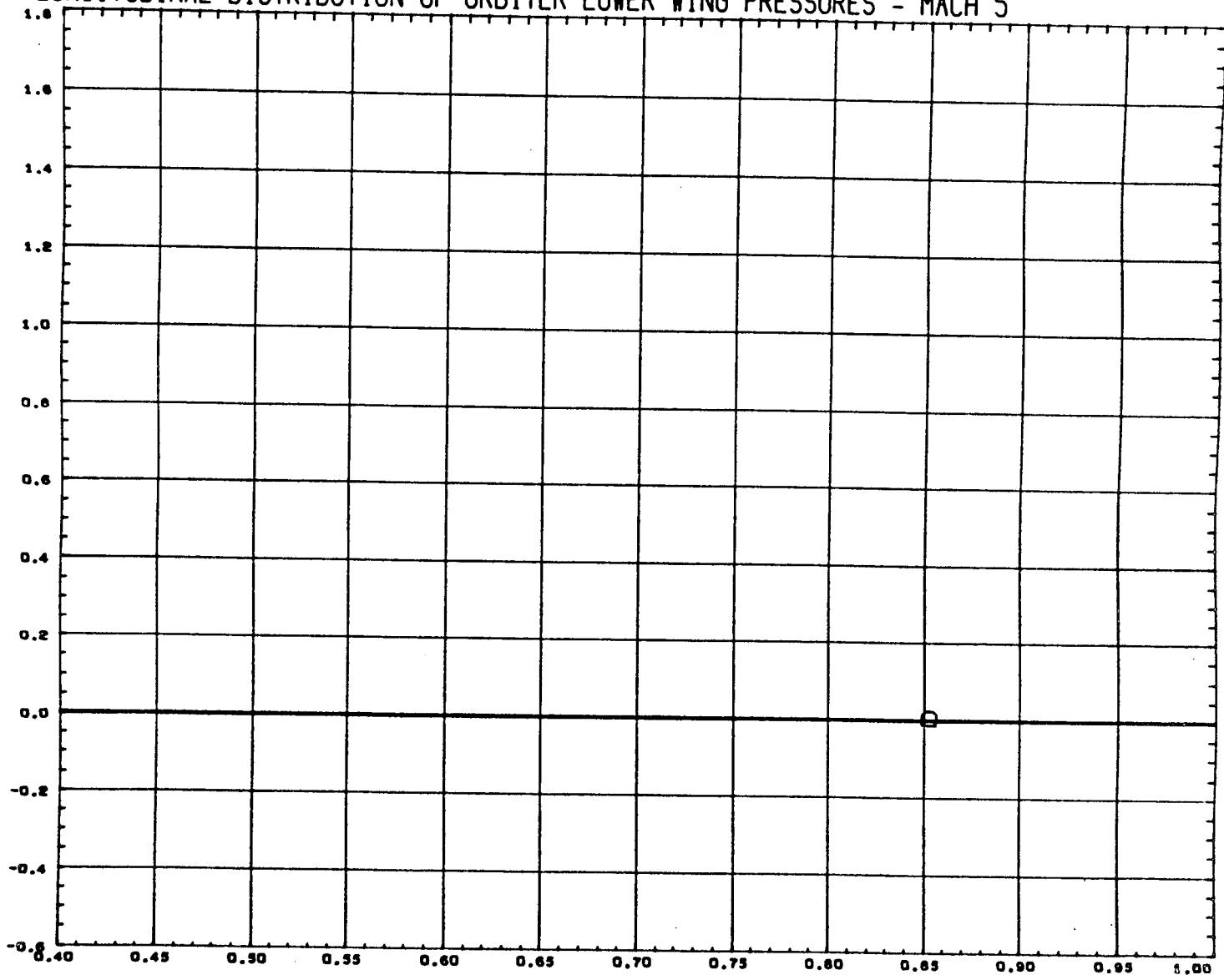
AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
O	0.920	0.736	0.906

PARAMETRIC VALUES		
ALPHAS	0.039	MACH 6.940
ALPHAI	0.000	ORBPOW 100.000
BSTPOW	50.000	

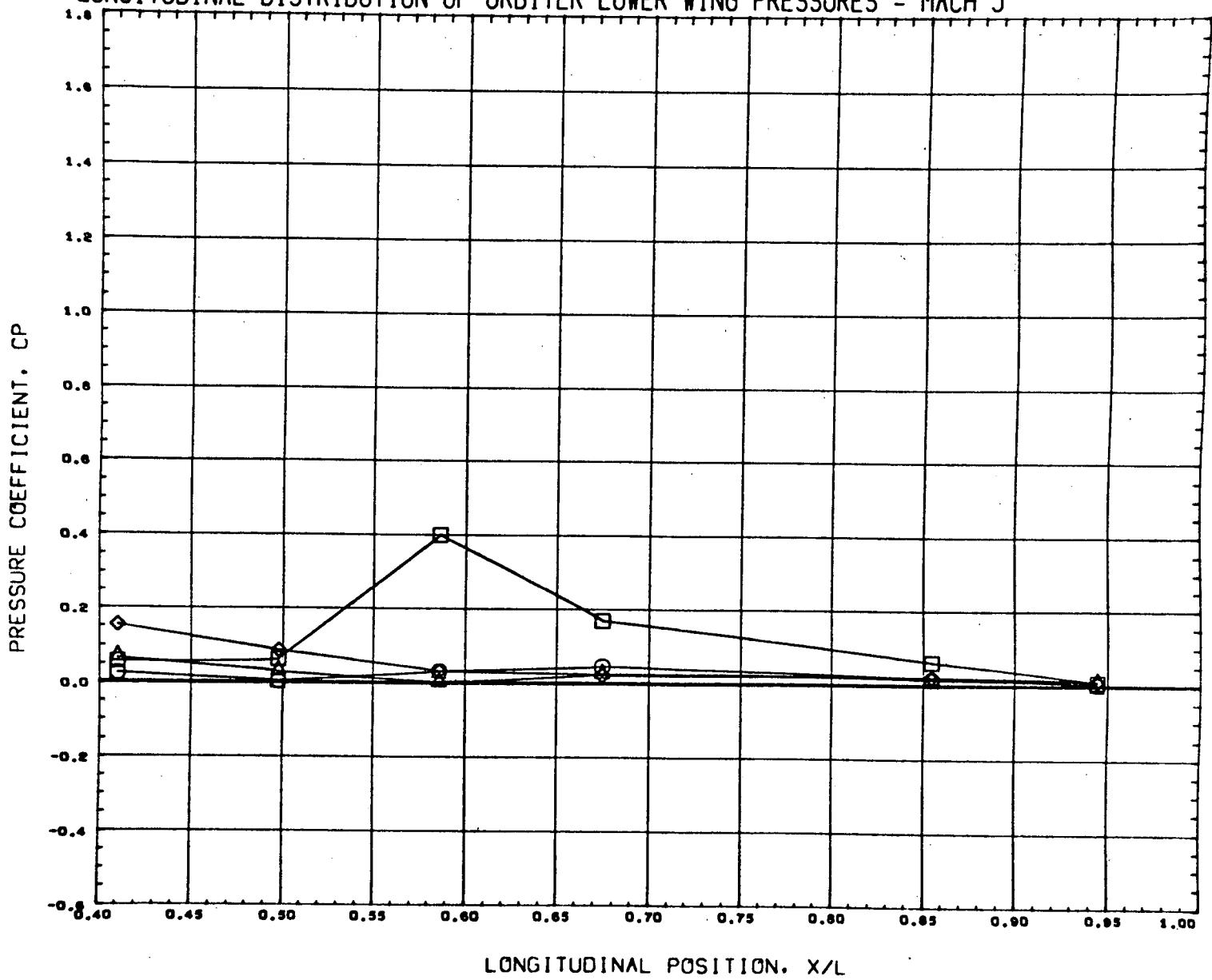
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL DELTAX T/S DELTAZ

Δ	0.041	0.230	0.114
\diamond	0.103		
\square	0.165		
\circ	0.350		

PARAMETRIC VALUES

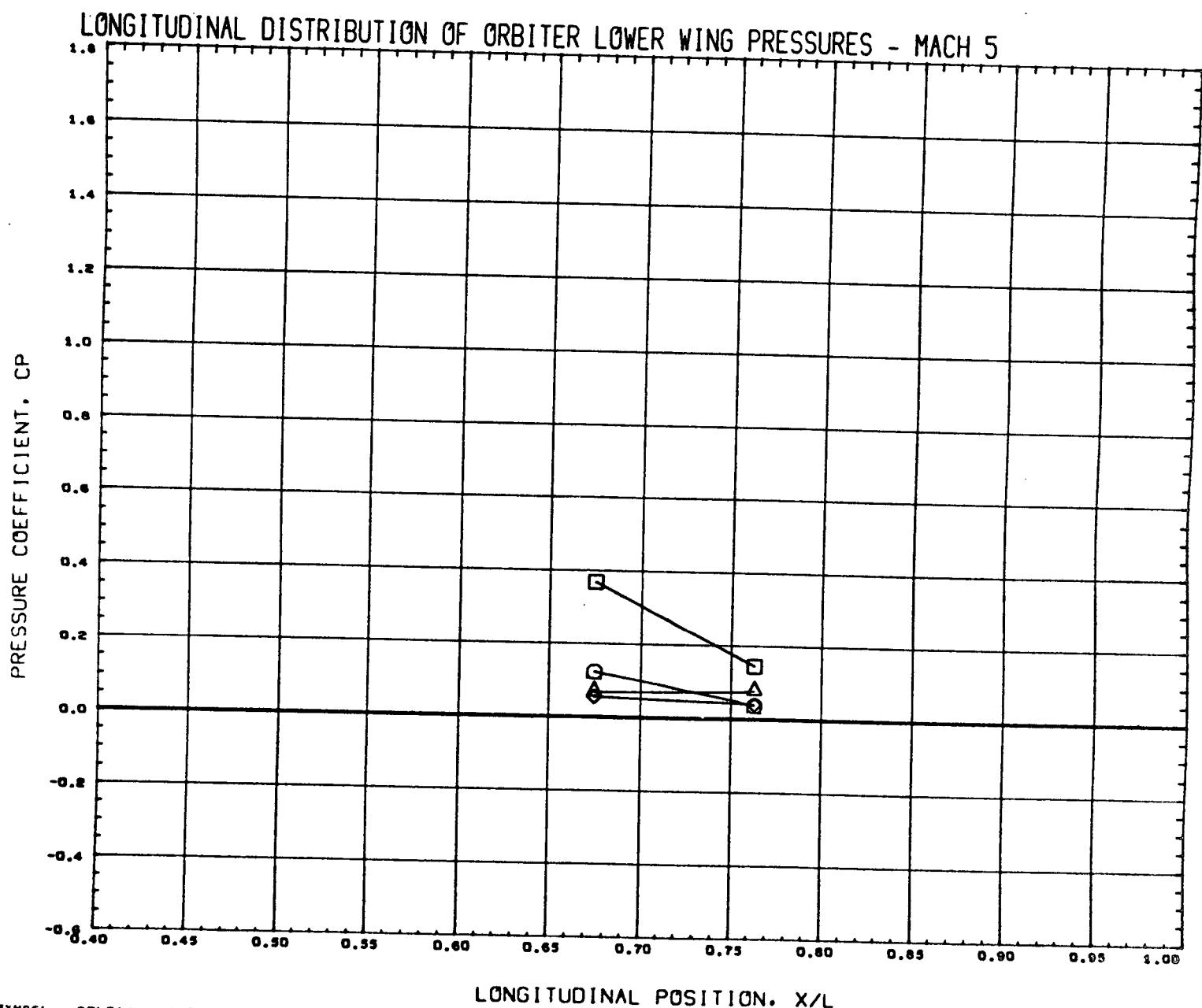
ALPHAB	5.067	MACH	4.940
ALPHAI	0.000	ORBPOW	100.000
BSTPOW	50.000		

REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

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SYMBOL	DELTA X	Y/B	DELTA Z
Δ	0.041	0.399	0.114
\diamond	0.103	-	-
\triangle	0.165	-	-
\circ	0.350	-	-

PARAMETRIC VALUES		
ALPHAB	5.067	MACH 4.940
ALPHAI	0.000	ORBPOW 100.000
BSTPOW	50.000	

REFERENCE FILE

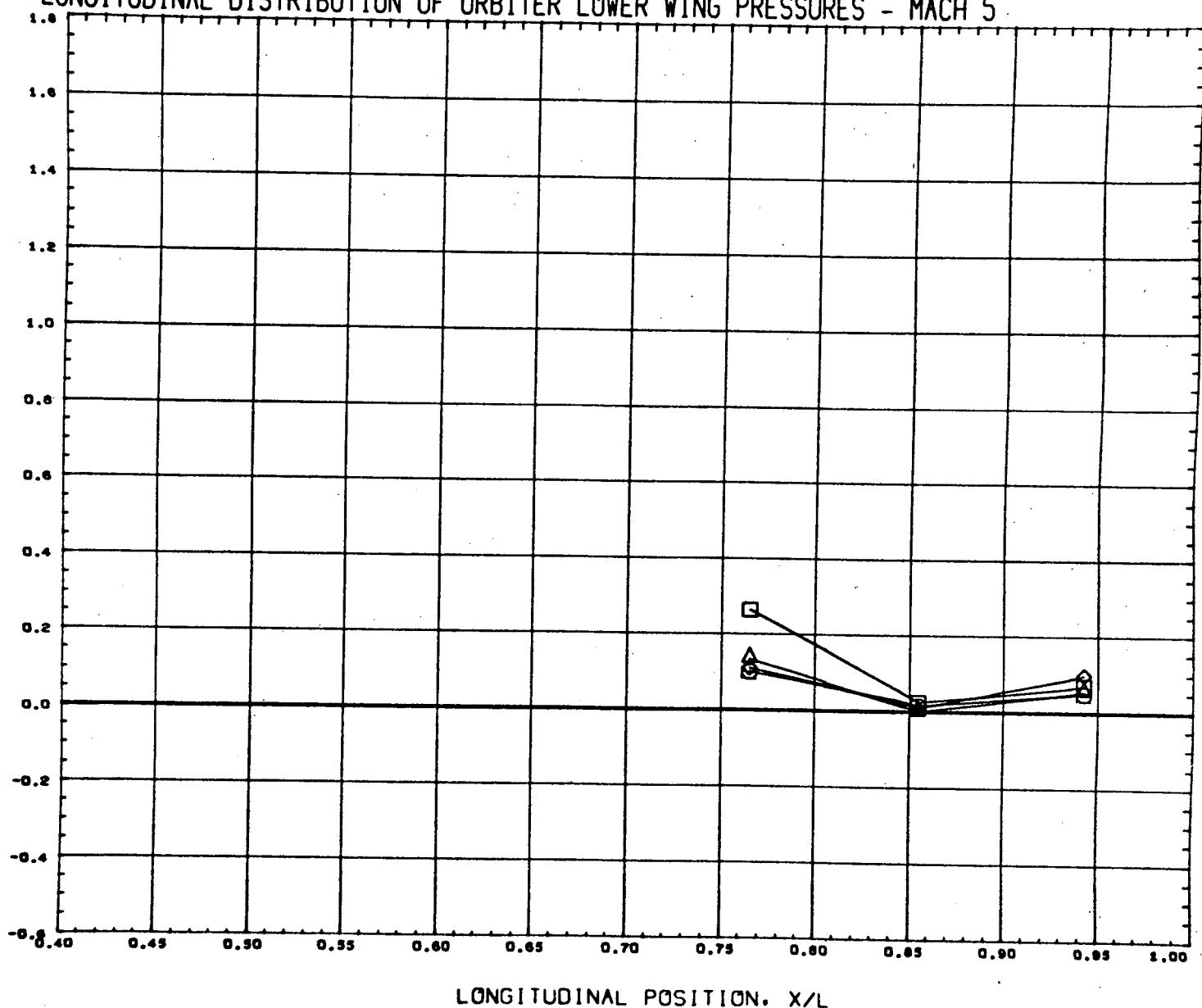
AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5.

PRESSURE COEFFICIENT, CP



SYMBOL DELTAX Y/Z DELTAZ

△ 0.041 0.568 0.114

◊ 0.103 0.165 0.350

PARAMETRIC VALUES

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ALPHAI	0.000	ORBPOW	100.000
BSTPOW	50.000		

REFERENCE FILE.

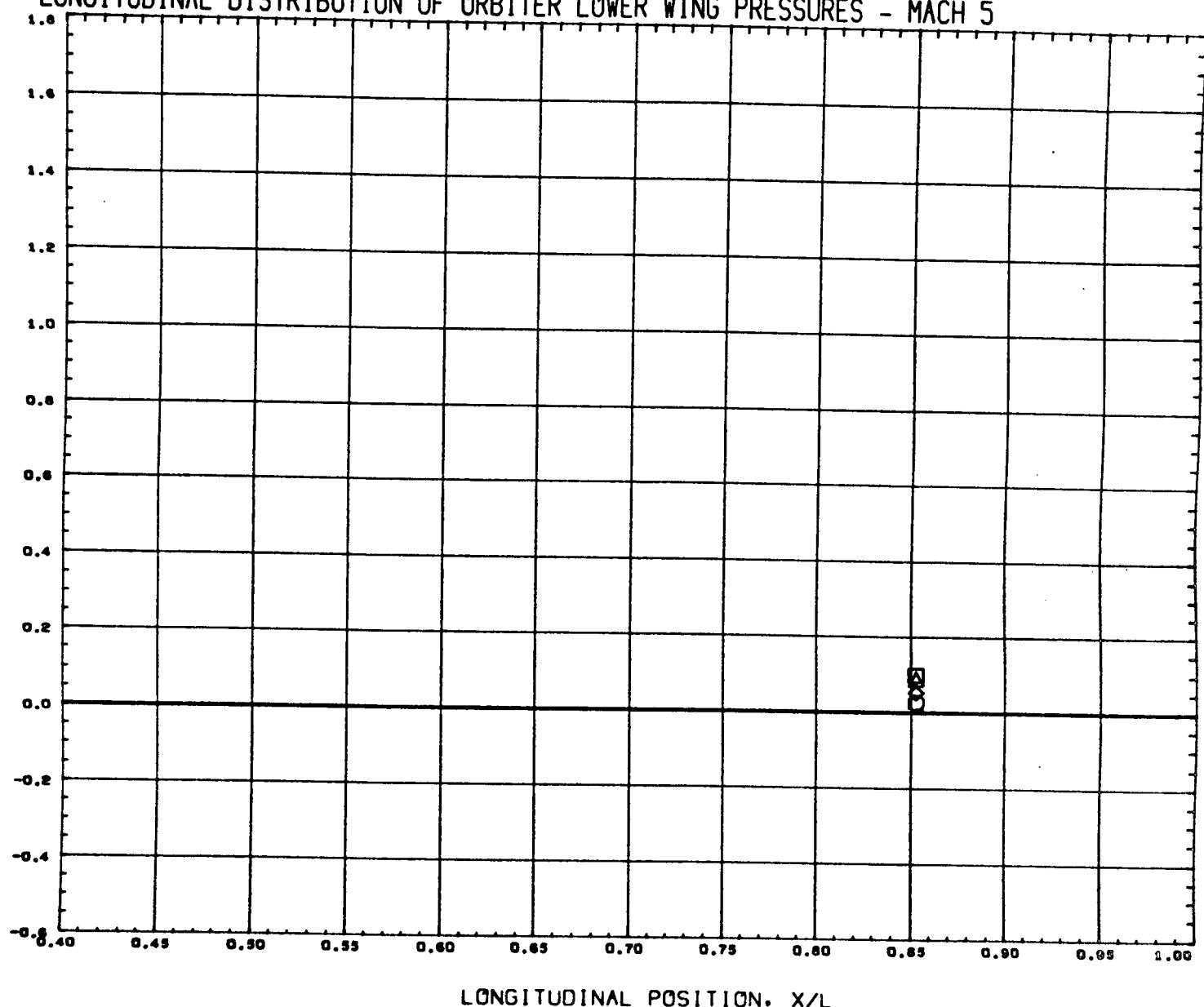
AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	T/B	DELTA Z
C	0.041	0.738	0.114
△	0.103		
◊	0.165		
□	0.350		

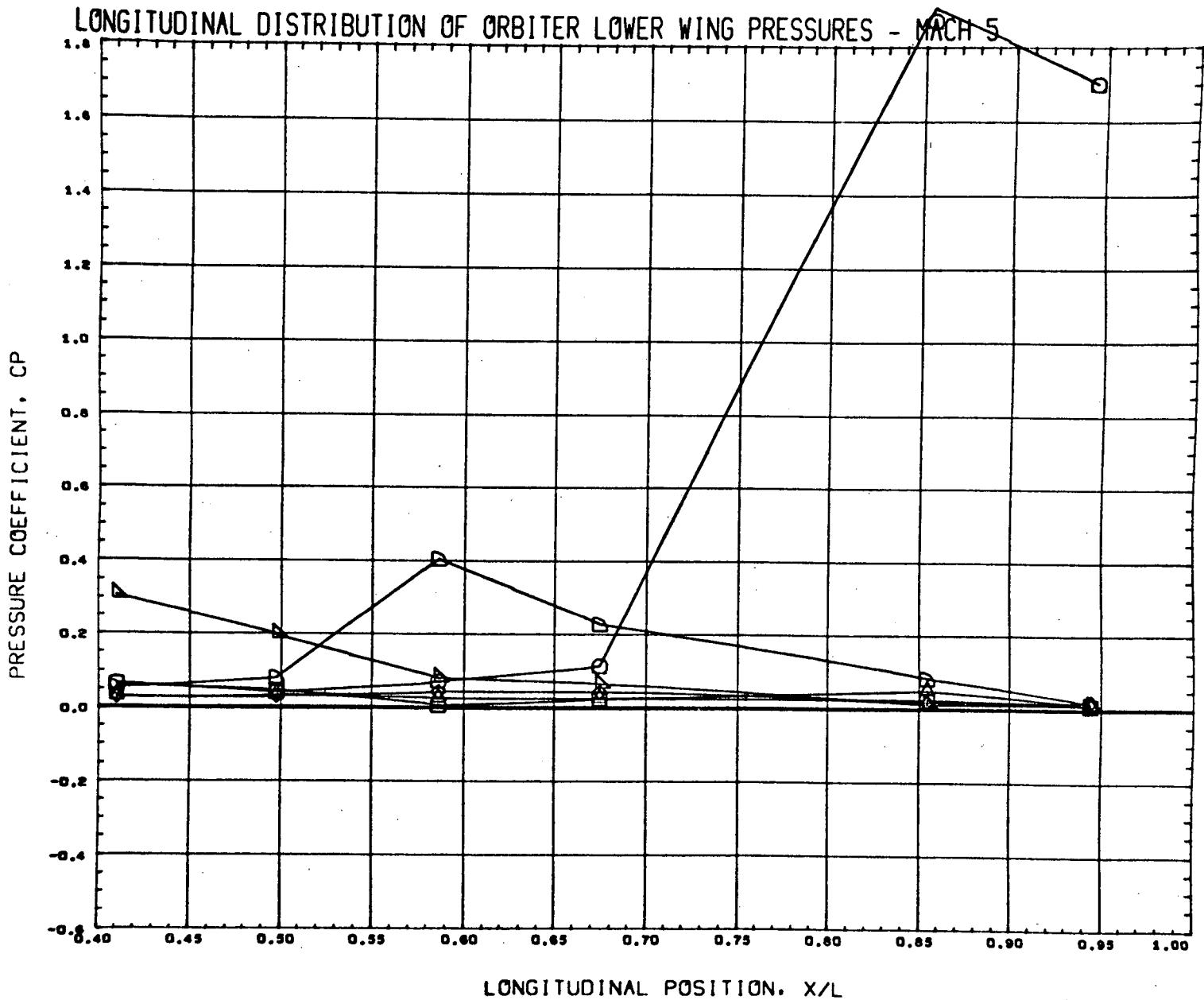
PARAMETRIC VALUES			
ALPHAB	5.067	MACH	4.940
ALPHAI	0.000	ORBPOW	100.000
BSTPOW	50.000		

REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

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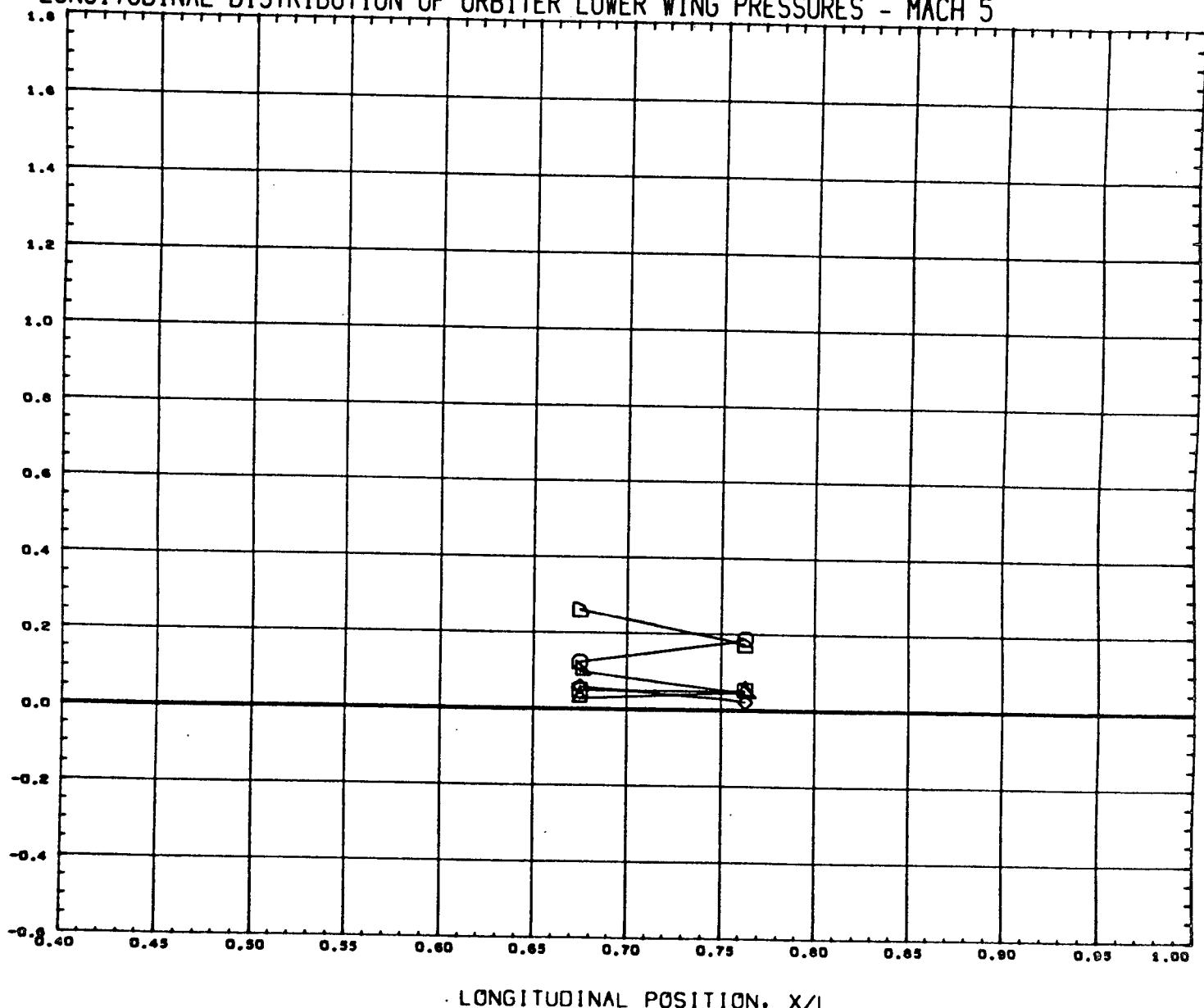
AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION, X/L

SYMBOL DELTAX Y/B DELTAZ
 - 0.390 0.399 0.120
 - 0.143
 - 0.020
 0.103
 0.227
 0.390
 REFERENCE FILE

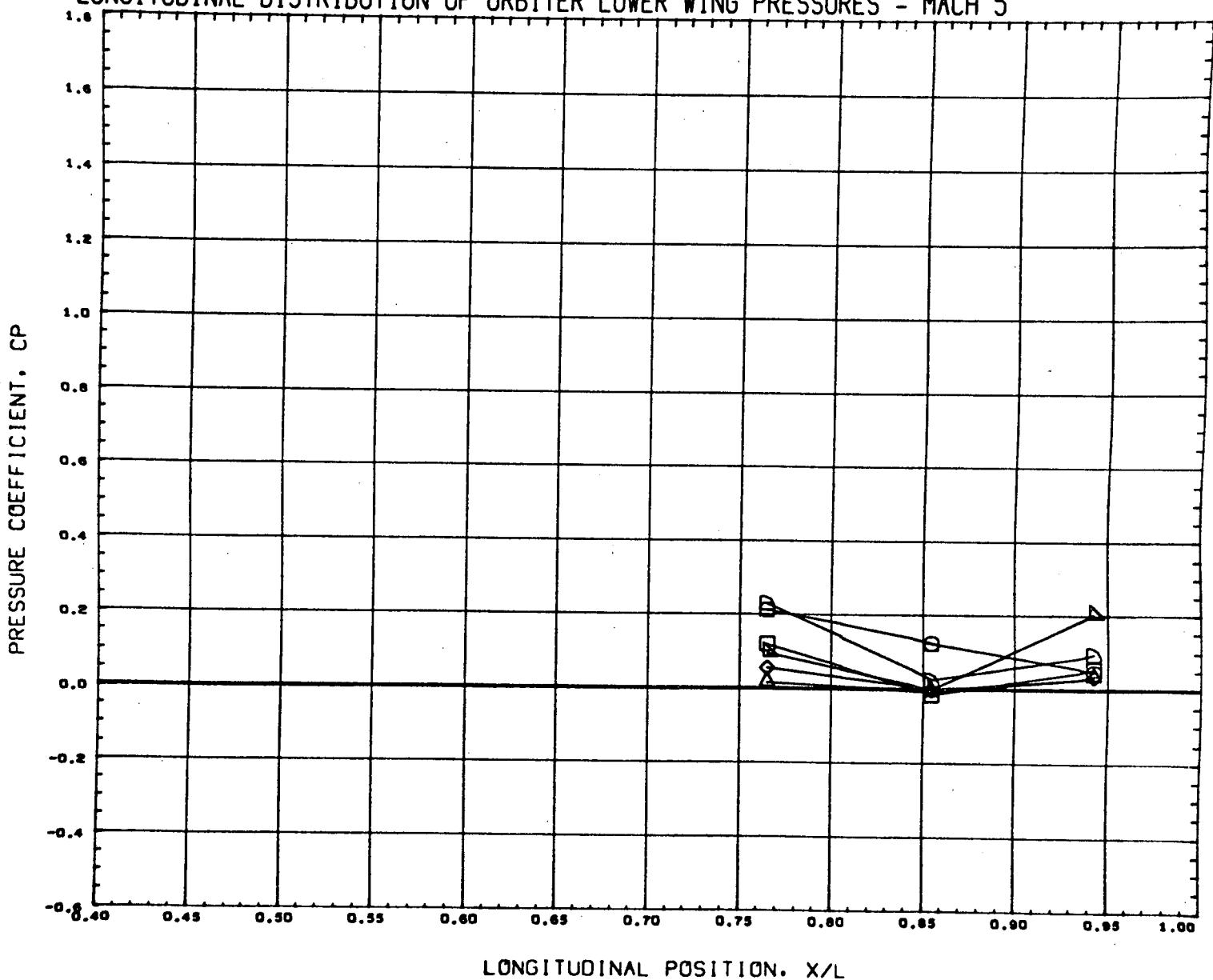
PARAMETRIC VALUES
 ALPHAB 5.067 MACH 4.940
 ALPHAI 0.000 ORBPOW 100.000
 BSTPOW 30.000

AEDC VA1163 MDAC ORBITER (LOWER WING)

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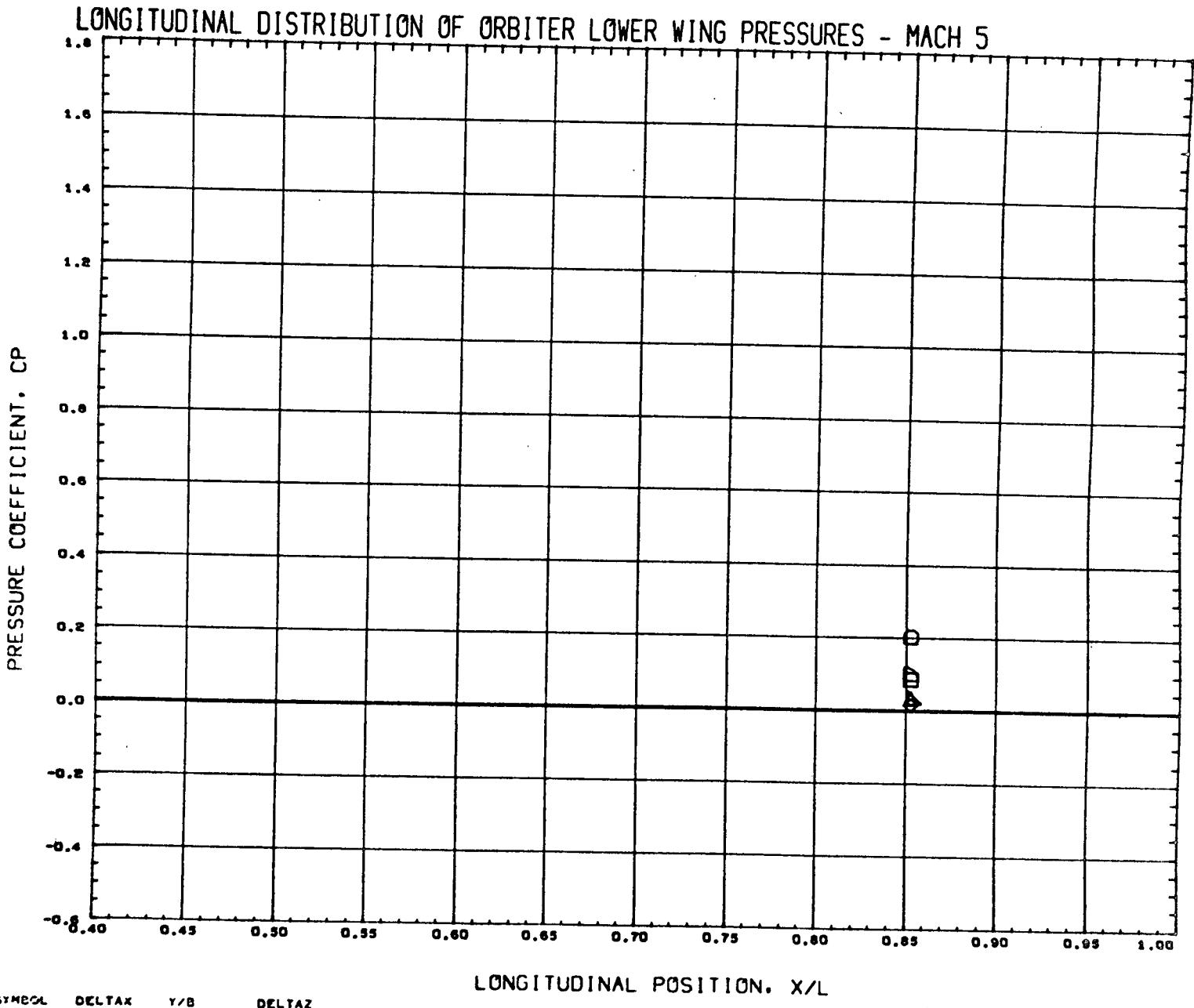
LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



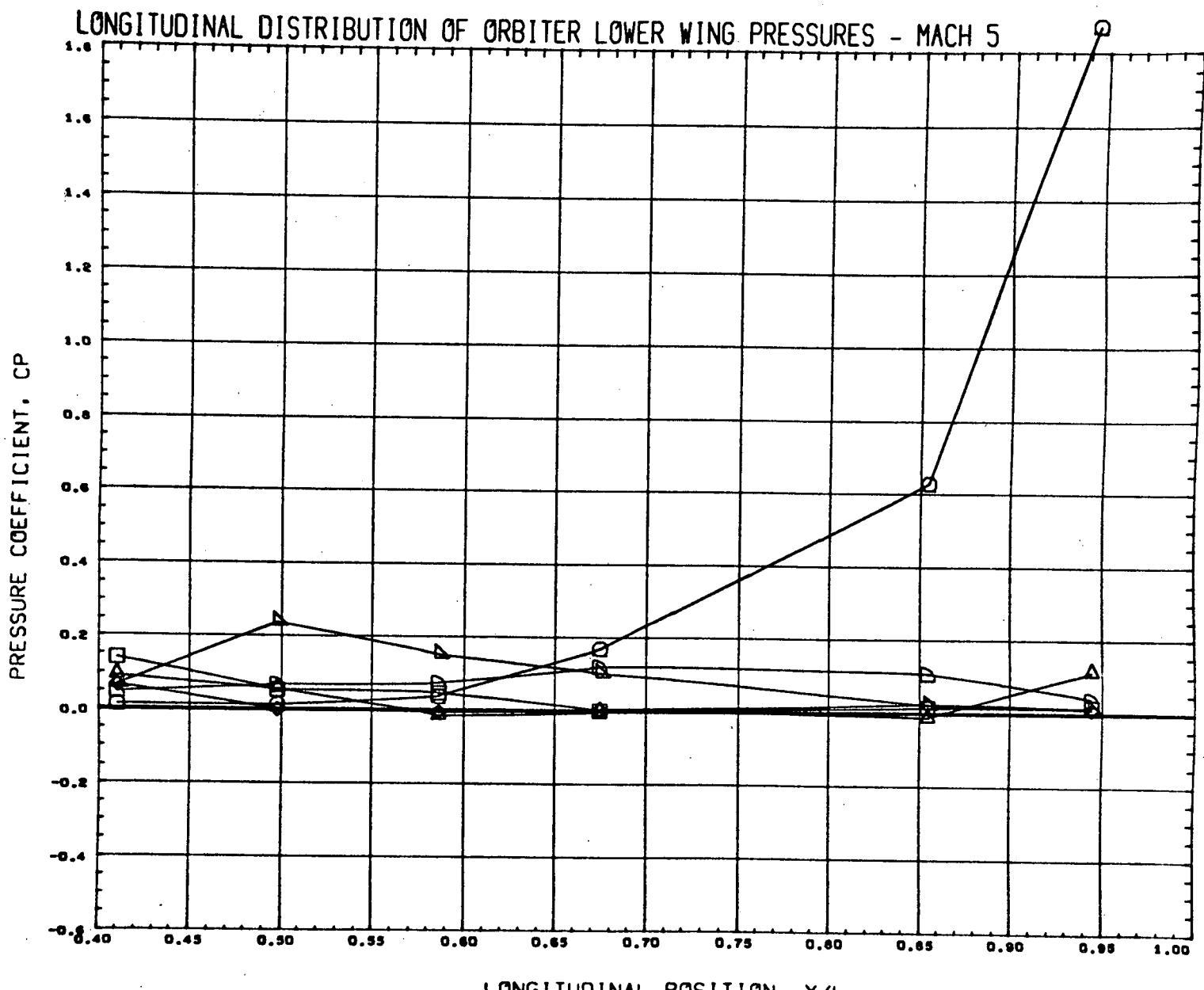
SYMBOL	DELTA X	Y/B	DELTA Z
-	0.390	0.568	0.120
-	0.143		
-	0.020		
-	0.103		
-	0.227		
-	0.350		

REFERENCE FILE

PARAMETRIC VALUES		
ALPHAB	5.067	MACH 4.940
ALPHAI	0.000	ORBPOW 100.000
BSTPOW	50.000	



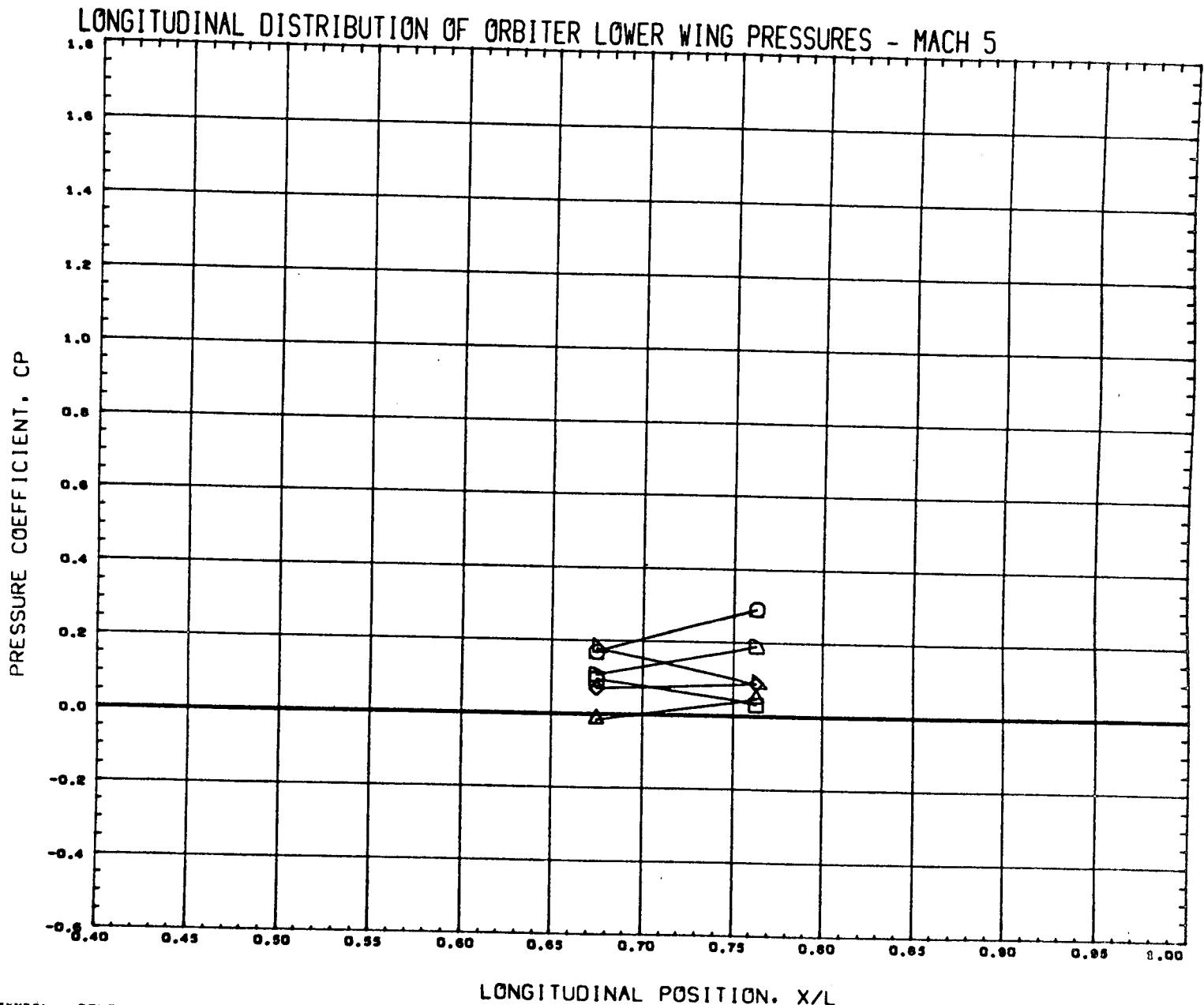
PARAMETRIC VALUES		
ALPHAB	5.067	MACH 4.940
ALPHAI	0.000	ORBPOW 100.000
BSTPOW	50.000	



AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8534•

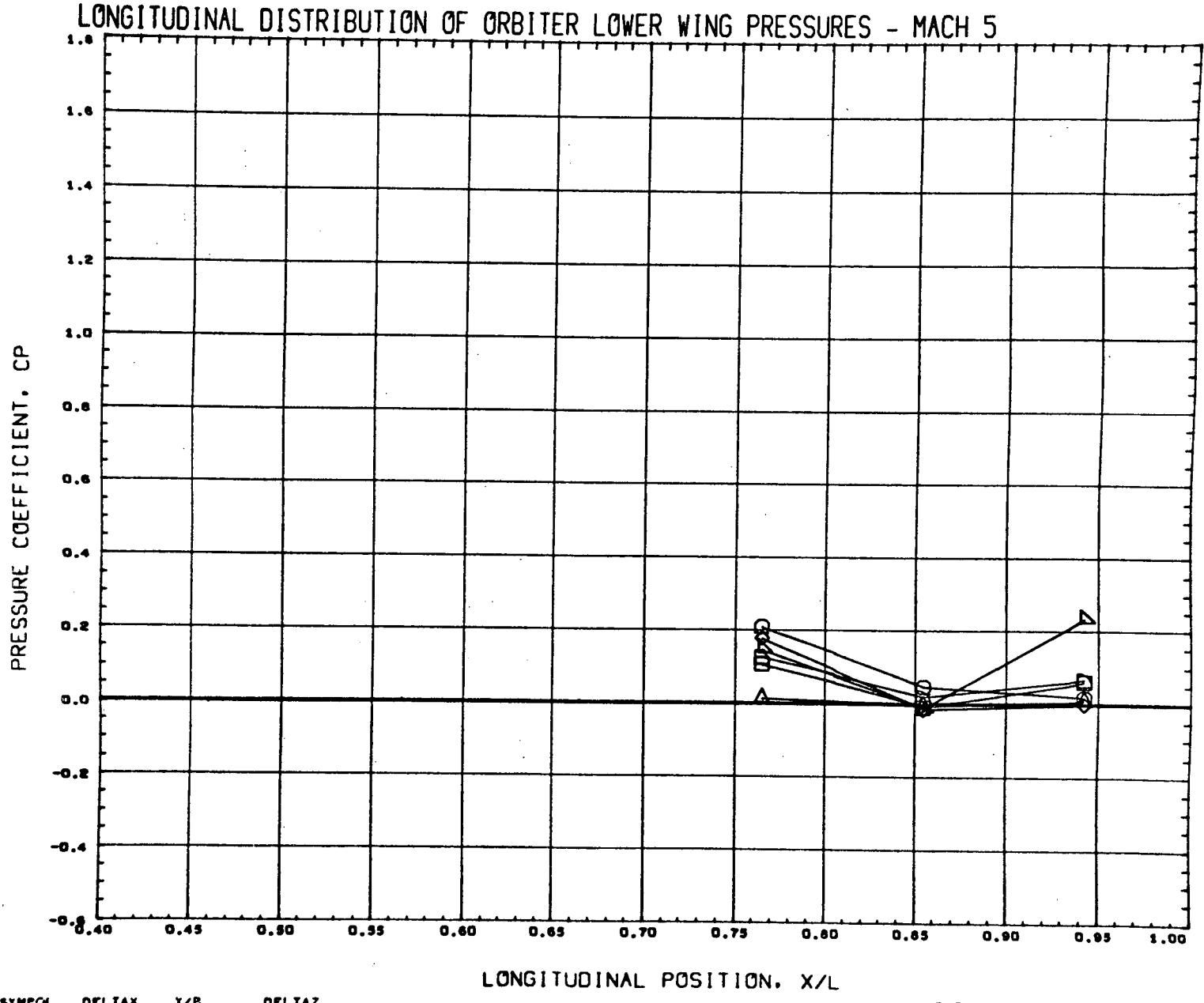
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SYMBOL DELTAX Y/B DELTAZ
 - 0.390 0.399 0.151
 - 0.143
 - 0.020
 - 0.103
 - 0.227
 - 0.350
 D D D D D D

PARAMETRIC VALUES

ALPHAB	5.067	MACH	4.940
ALPHAI	0.000	ORBPOW	100.000
BSTPOW	50.000		



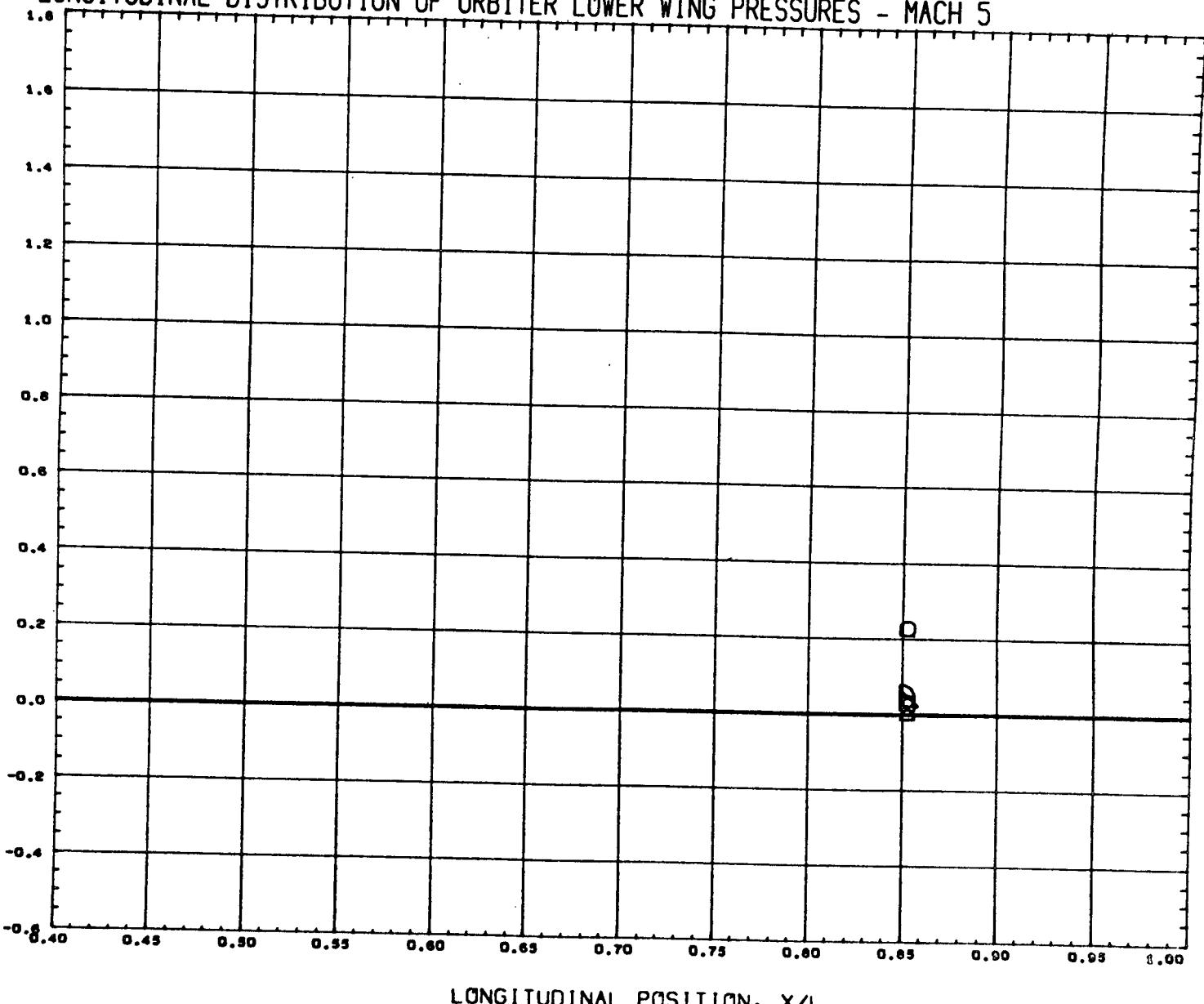
SYMBOL	DELTAX	Y/B	DELTAZ
-	0.390	0.368	0.151
-	0.143		
-	0.020		
○	0.103		
△	0.227		
□	0.350		

REFERENCE FILE

PARAMETRIC VALUES		
ALPHAB	9.067	MACH 4.940
ALPHAI	0.000	ORBPOW 100.000
BSTPOW	50.000	

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL DELTAX T/8 DELTAZ
 □ 0.390 0.736 0.151
 ▲ 0.143
 - 0.020
 ○ 0.103
 ◇ 0.227
 ◻ 0.350 REFERENCE FILE

PARAMETRIC VALUES
 ALPHAB 5.067 MACH 4.940
 ALPHAI 0.000 ORBPOW 100.000
 BSTPOW 50.000

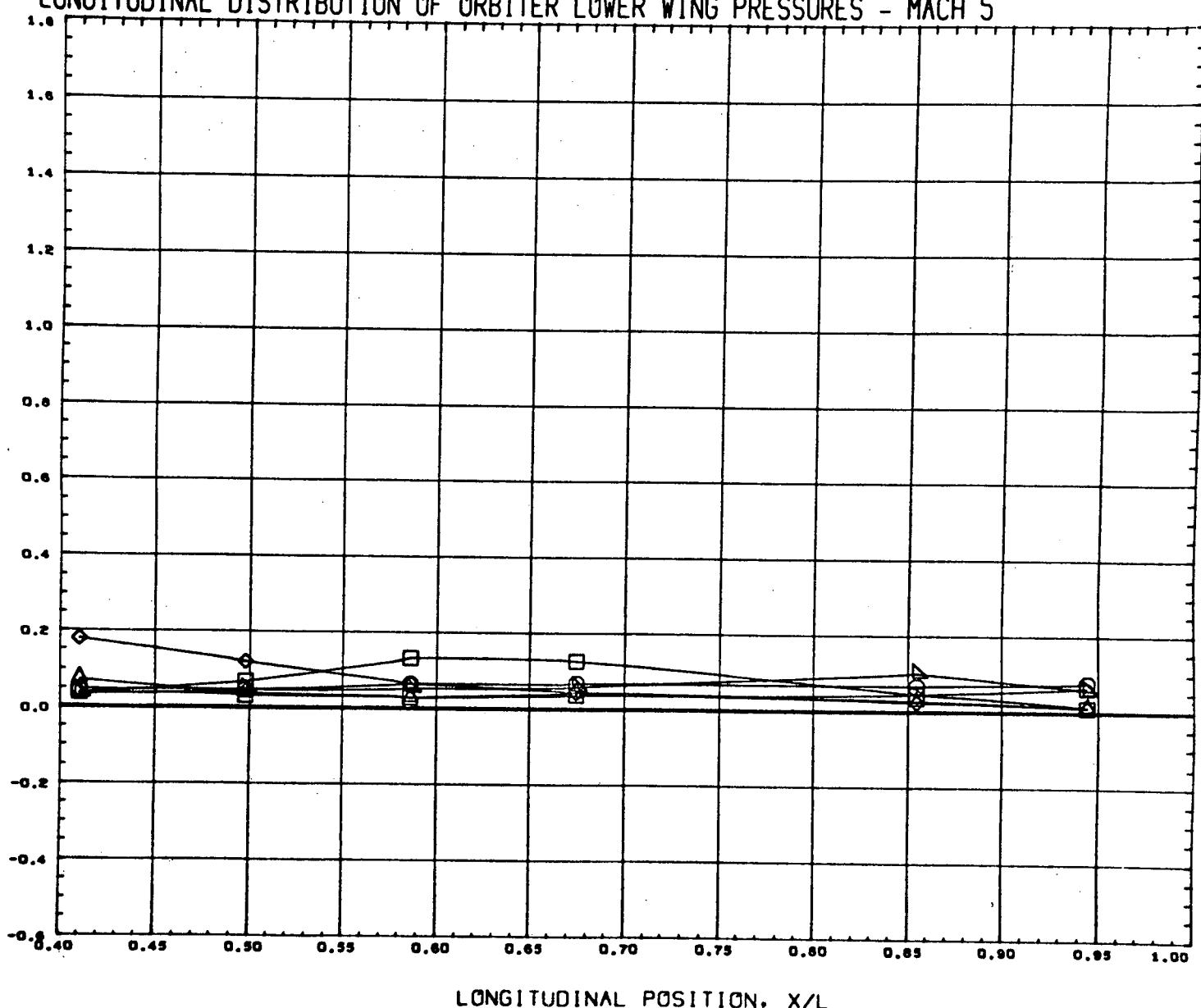
AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION, X/L

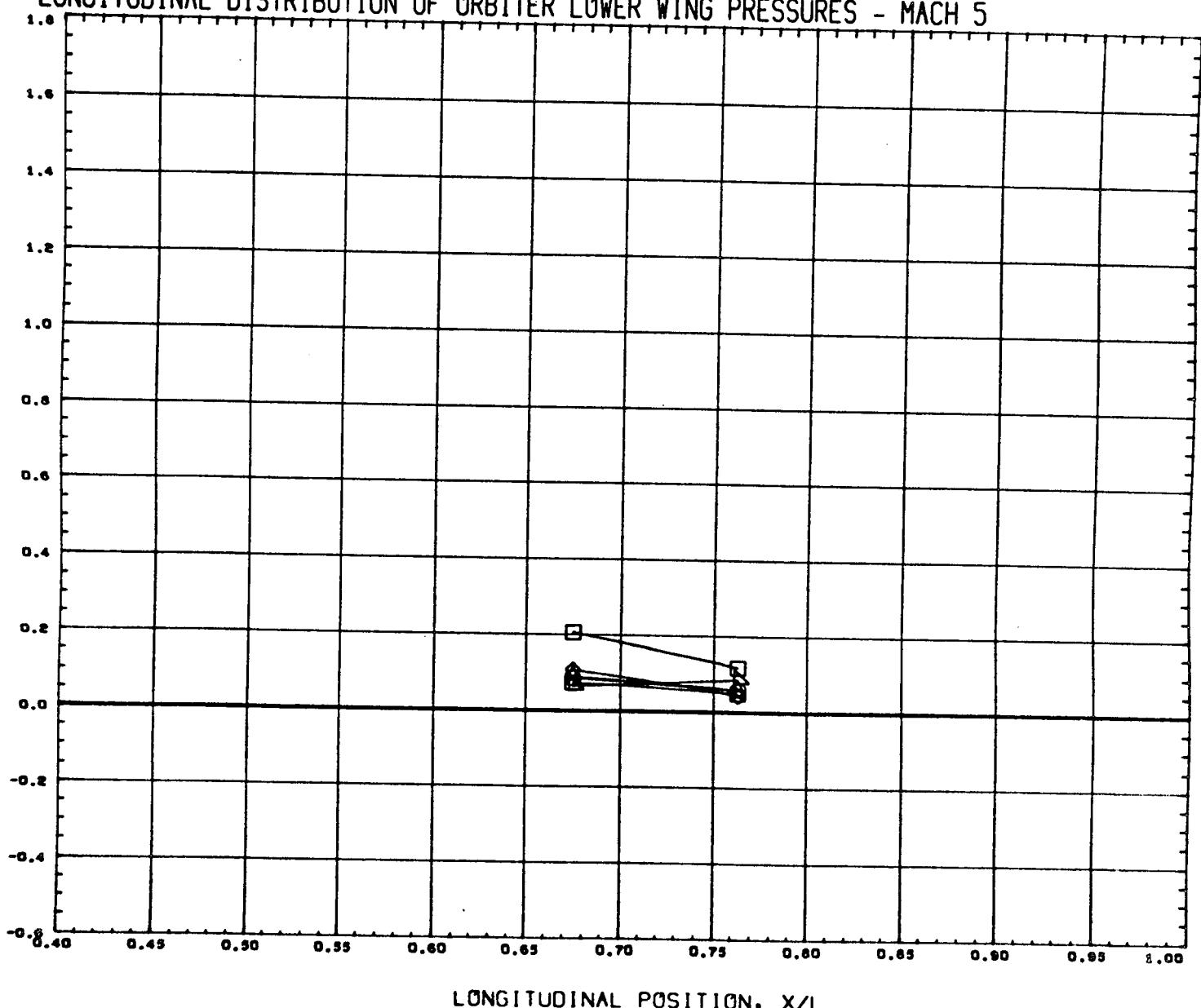
SYMBOL	DELTA X	Y/B	DELTA Z
-	0.390	0.230	0.226
-	0.143		
-	0.020		
-	0.103		
-	0.227		
-	0.350		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	5.067	MACH	4.940
ALPHAT	0.000	ORBPOW	100.000
BSTPOW	50.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL DELTAX Y/B DELTAZ
 - 0.399 0.399 0.226
 - 0.143
 - 0.020
 0.103
 0.227
 0.399 REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

LONGITUDINAL POSITION, X/L

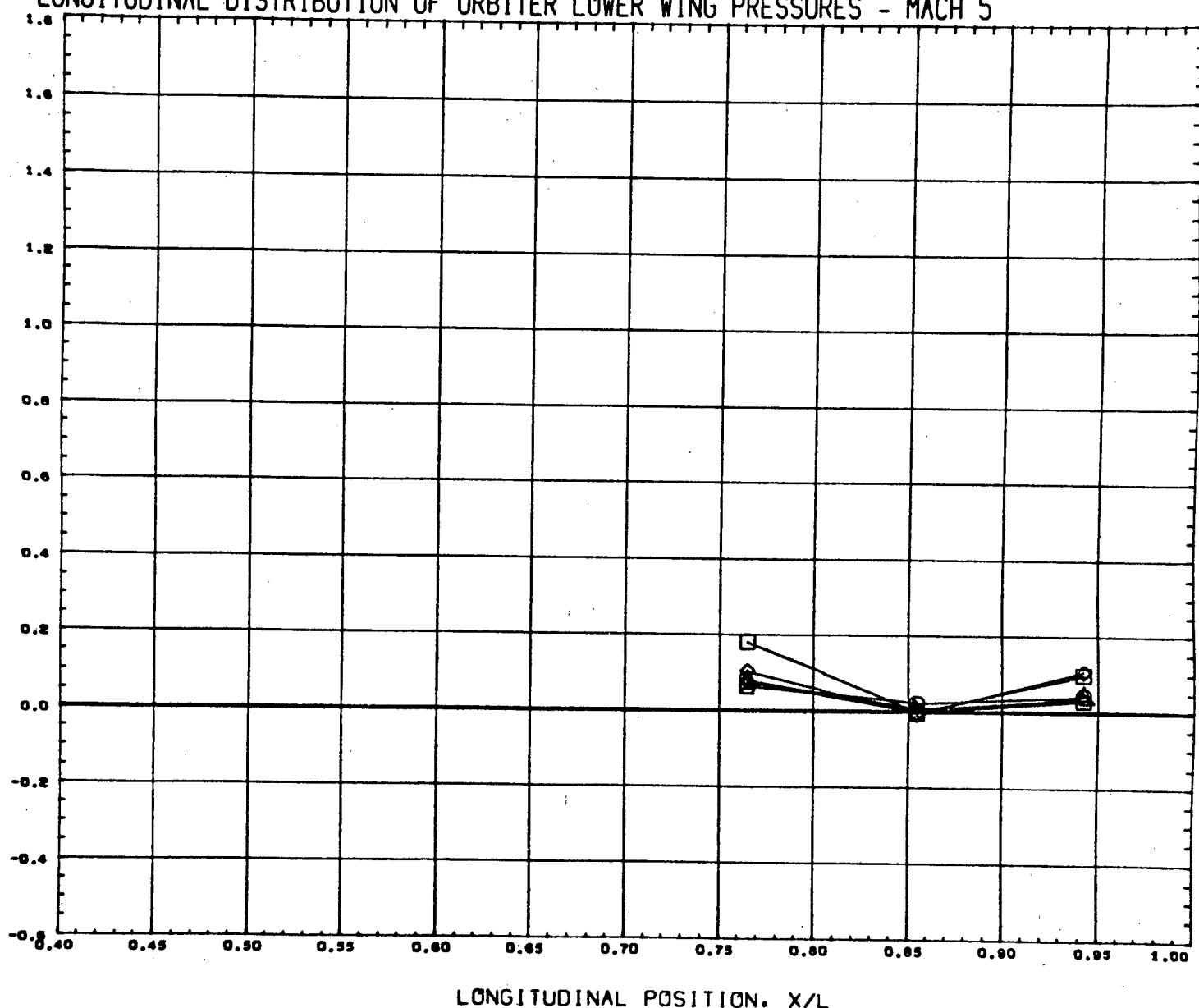
	ALPHAB	MACH	ORBPOW
ALPHAI	5.067	4.940	
BSTPOW	0.000		100.000
	50.000		

•HT8534•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



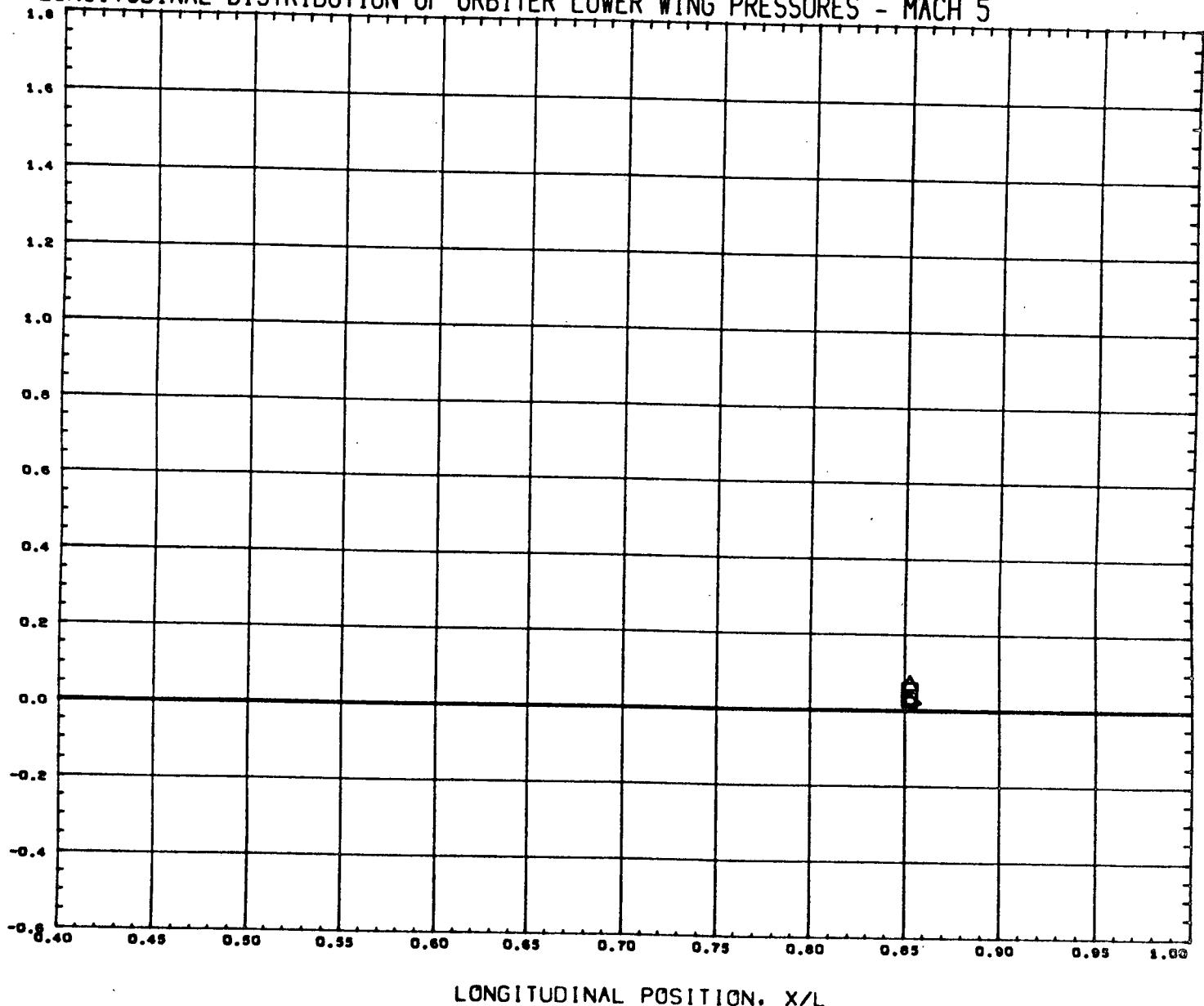
SYMBOL DELTAX Y/B DELTAZ
 □ 0.390 0.560 0.226
 - 0.143
 - 0.020
 . 0.103
 . 0.287
 . 0.390 REFERENCE FILE

LONGITUDINAL POSITION. X/L

PARAMETRIC VALUES			
ALPHAB	5.067	MACH	4.940
ALPHAI	0.000	ORBPOW	100.000
BSTPOW	50.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP

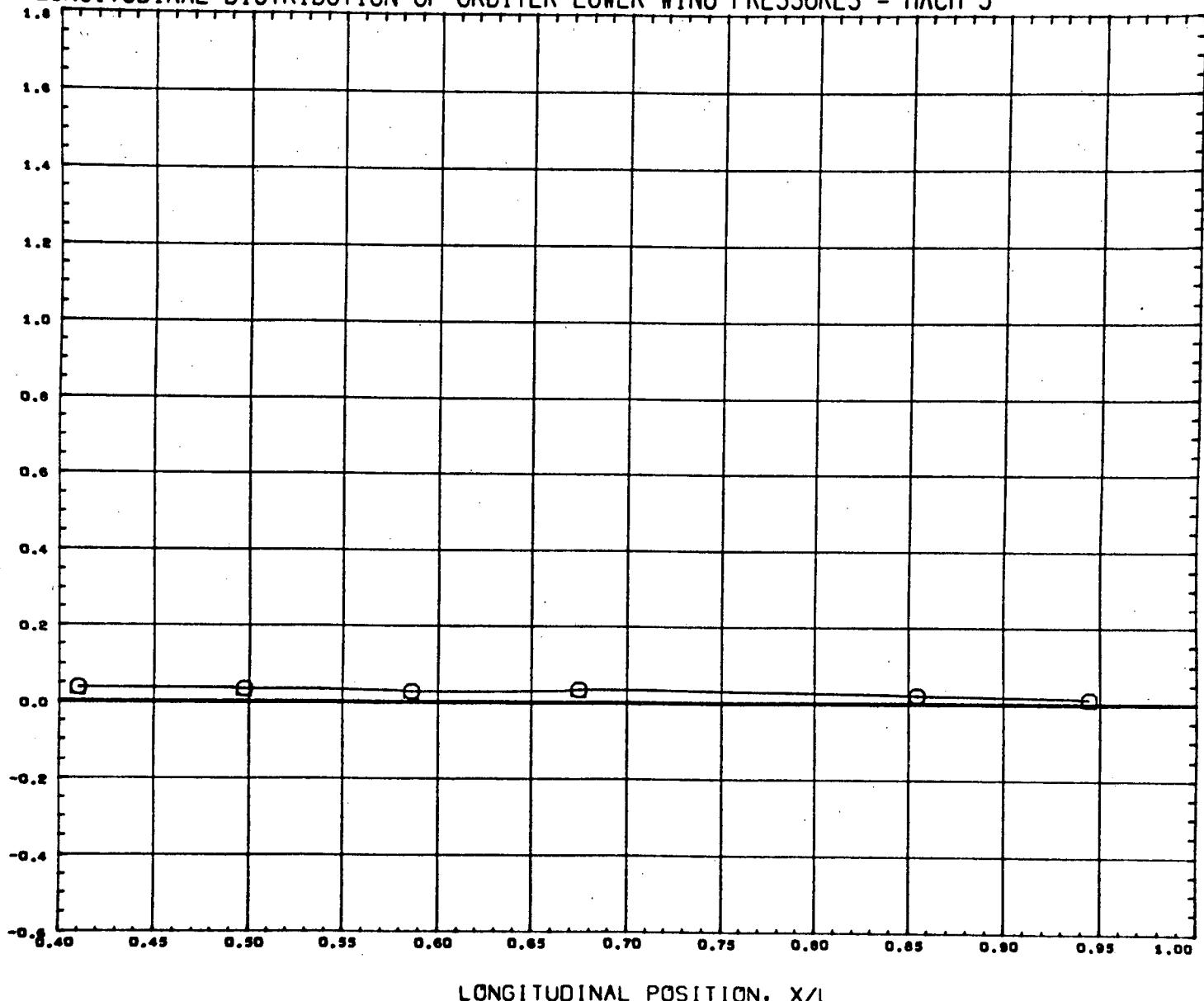


SYMBOL DELTAX T/B DELTAZ
 - 0.390 0.738 0.226
 - 0.143
 - 0.020
 0.103
 0.227
 0.390 REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	5.067	MACH	4.940
ALPHAI	0.000	ORBPOW	100.000
BSTPOW	50.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION, X/L

SYMBOL DELTAX Y/B DELTAZ
 C 0.520 0.230 0.908

PARAMETRIC VALUES			
ALPHAB	5.067	MACH	4.940
ALPHAI	0.000	ORBPOW	100.000
BSTPOW	50.000		

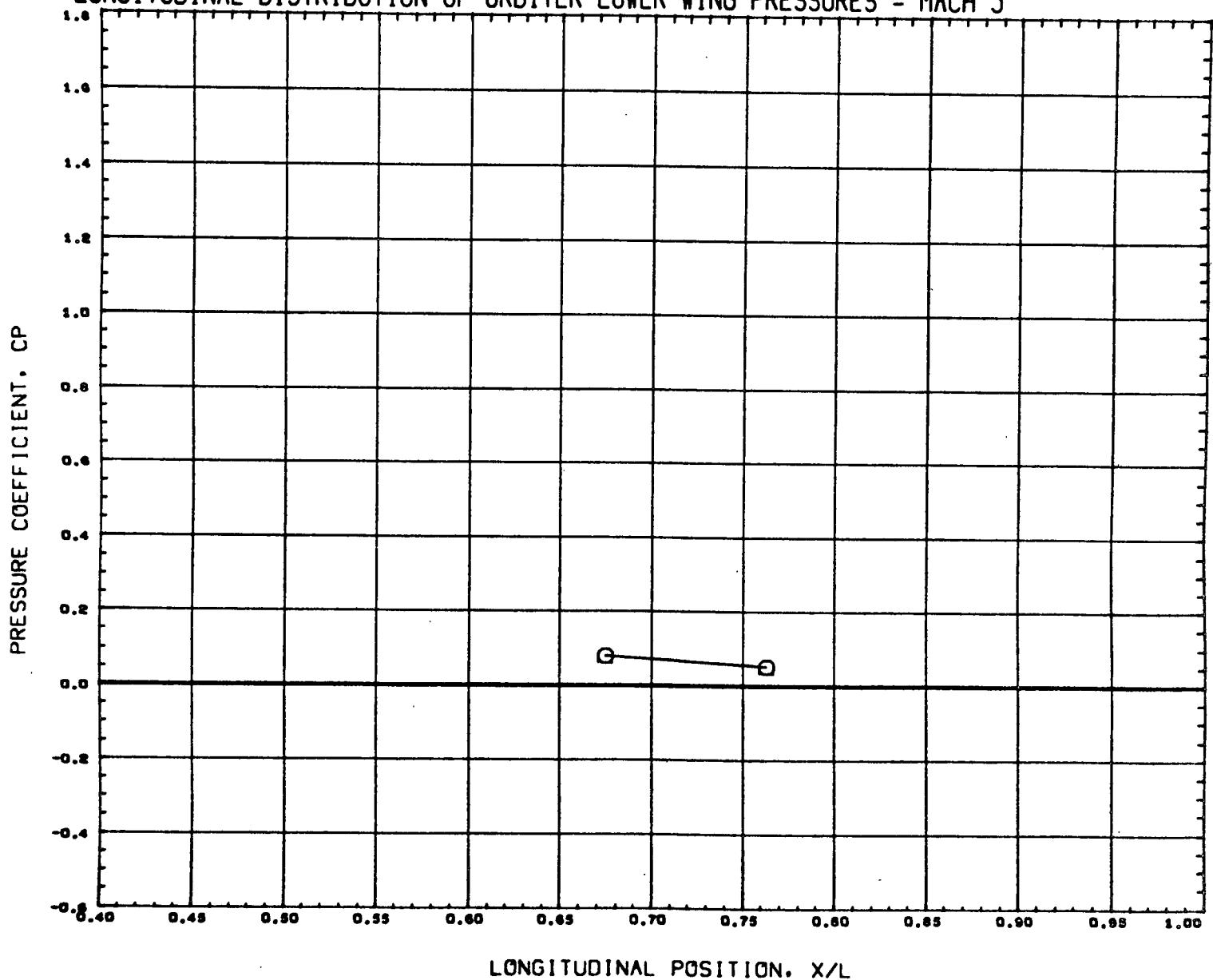
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AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8534•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



REFERENCE FILE

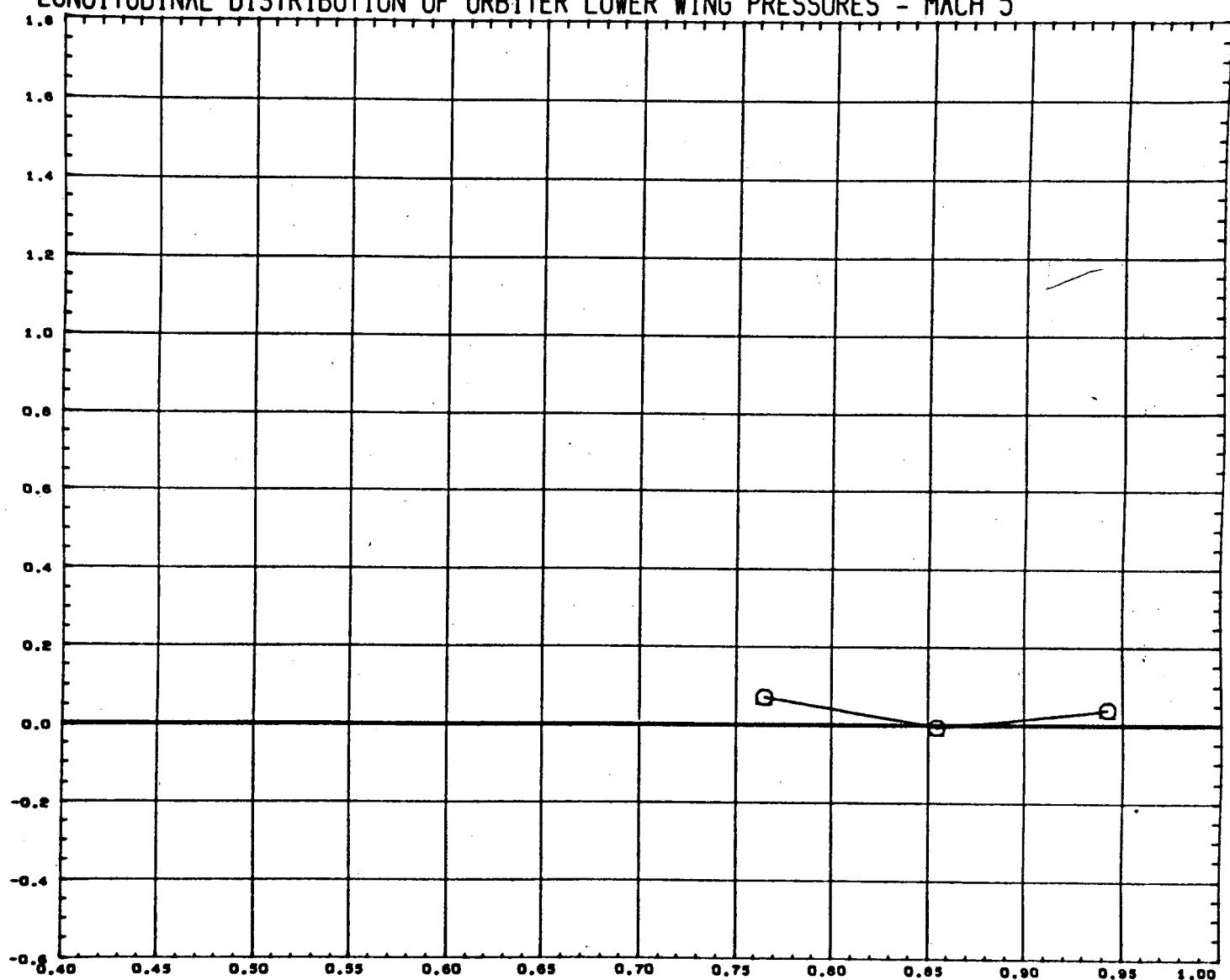
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8534•

PAGE 714

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION, X/L

SYMBOL DELTAX T/S DELTAZ
○ 0.920 0.566 0.906

	ALPHAB	MACH	4.940
ALPHAI	0.000	ORBPOW	100.000
BSTPOW	50.000		

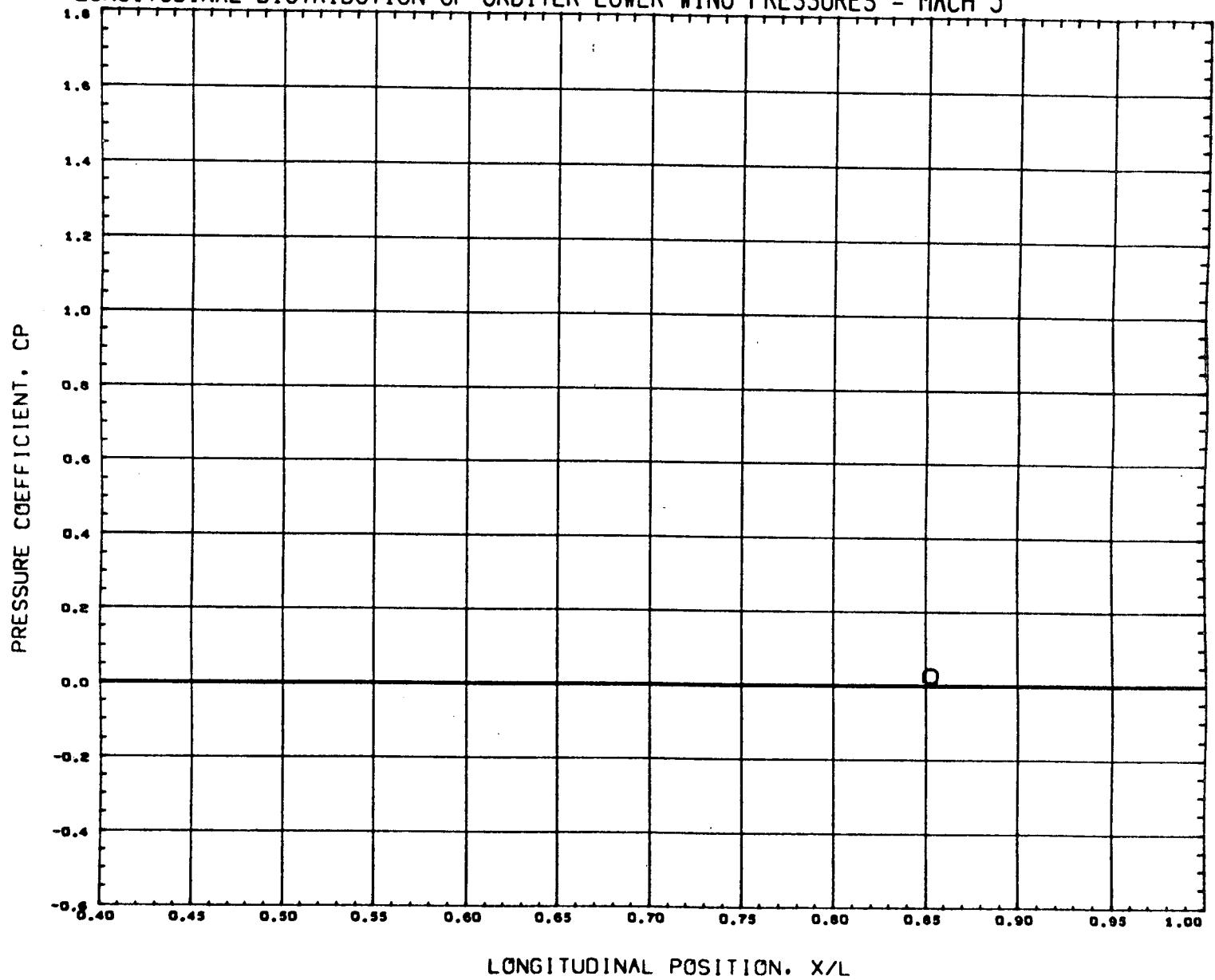
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AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8534•

PAGE 715

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

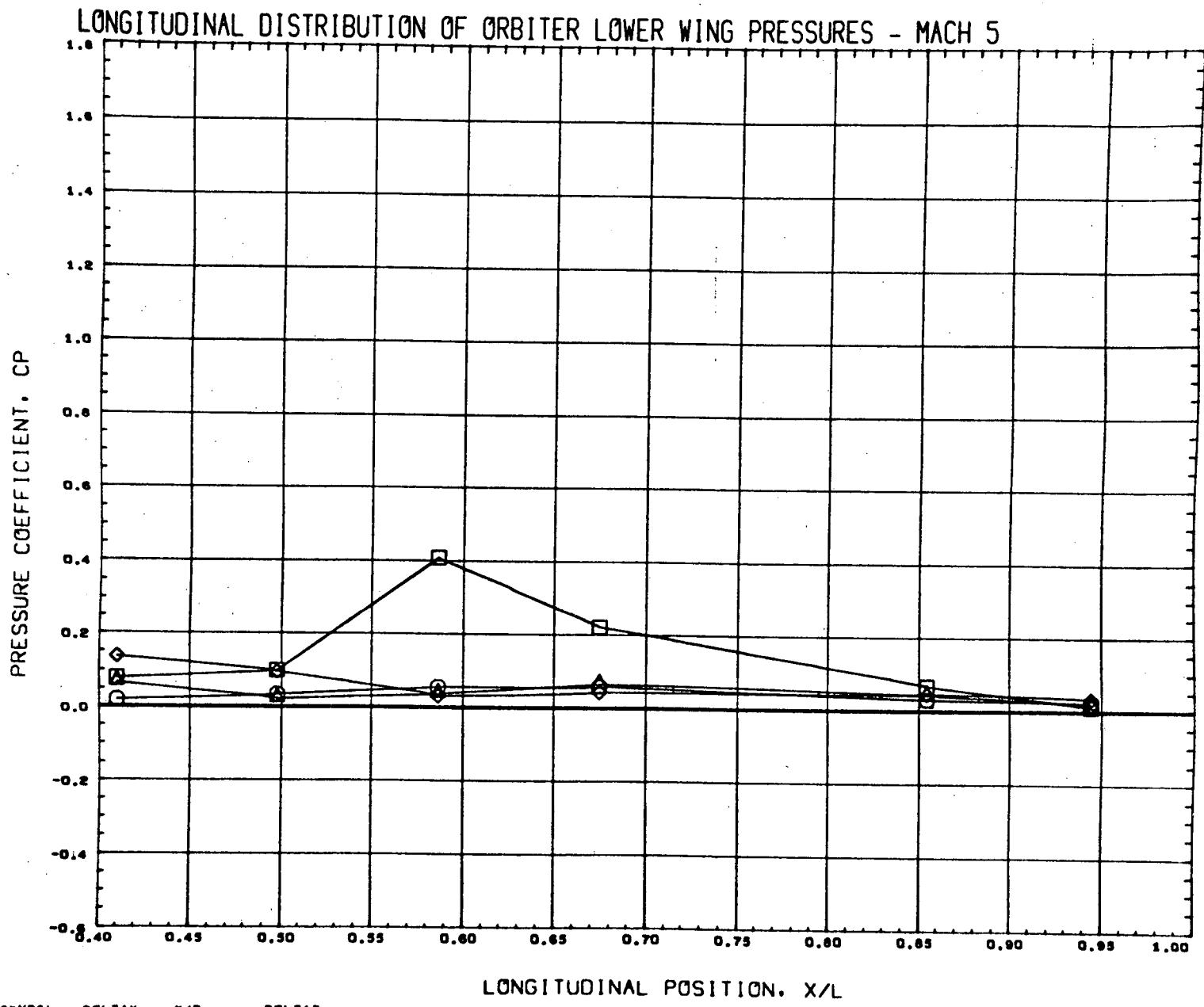


REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8534•

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SYMBOL	DELTA X	Y/B	DELTA Z
△	0.041	0.230	0.114
◆	0.103		
◆	0.165		
○	0.350		

PARAMETRIC VALUES		
ALPHAB	10.093	MACH 4.940
ALPHAI	0.000	ORBPOW 100.000
BSTPOW	50.000	

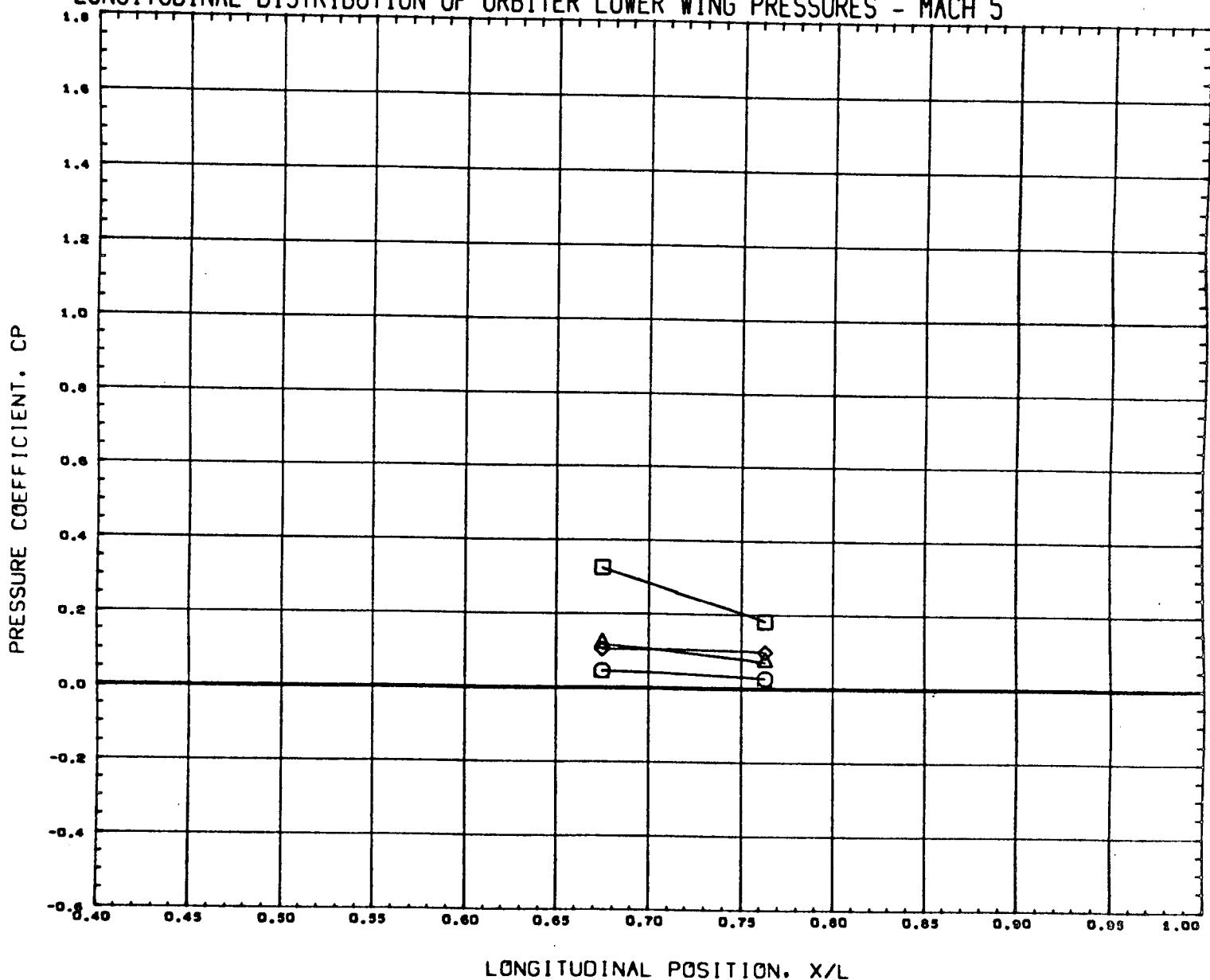
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8535•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL DELTAX Y/B DELTAZ

- \square 0.041 0.399 0.114
- \triangle 0.103
- \diamond 0.165
- \circ 0.350

LONGITUDINAL POSITION. X/L

PARAMETRIC VALUES

ALPHAB	10.053	MACH	4.940
ALPHAI	0.000	ORBPOW	100.000
BSTPOW	50.000		

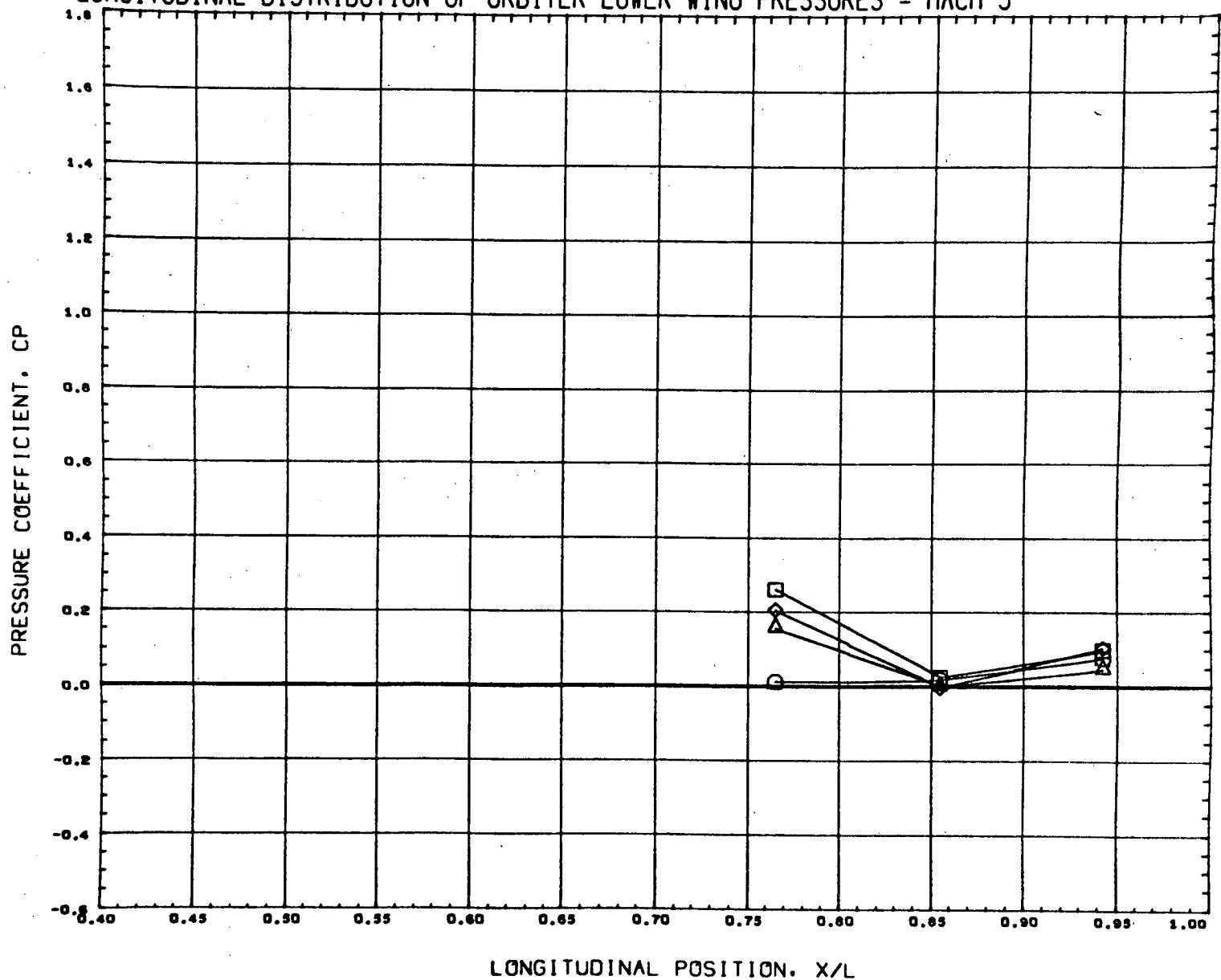
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AEDC VAI163 MDAC ORBITER (LOWER WING)

•HT8535•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

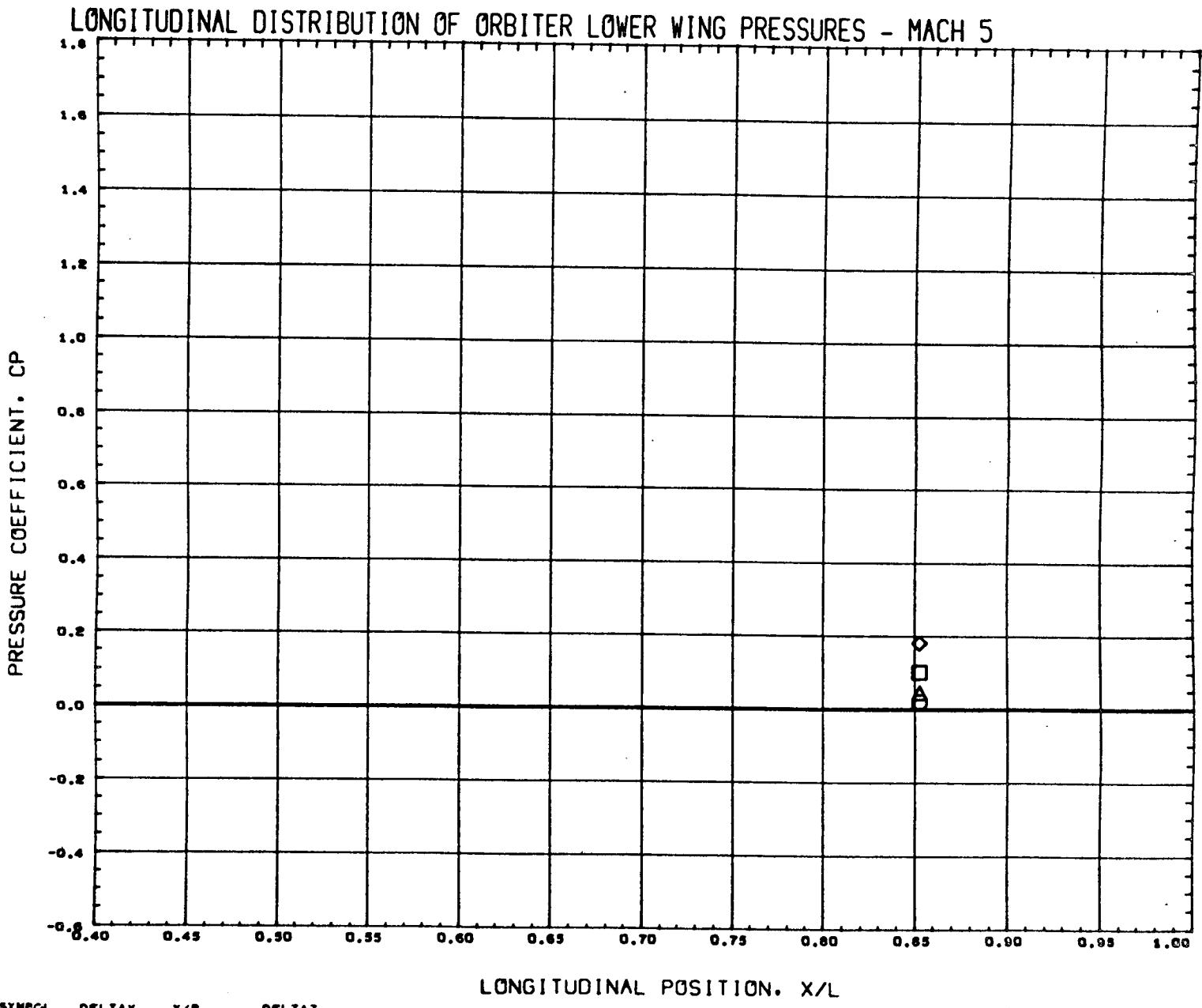


REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8535•

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SYMBOL	DELTA X	T/B	DELTA Z
\square	0.041	0.738	0.114
\diamond	0.103		
Δ	0.165		
\triangle	0.390		

PARAMETRIC VALUES			
ALPHAB	10.053	MACH	4.040
ALPHAI	0.000	ORBPOW	100.000
BSTPOW	50.000		

REFERENCE FILE

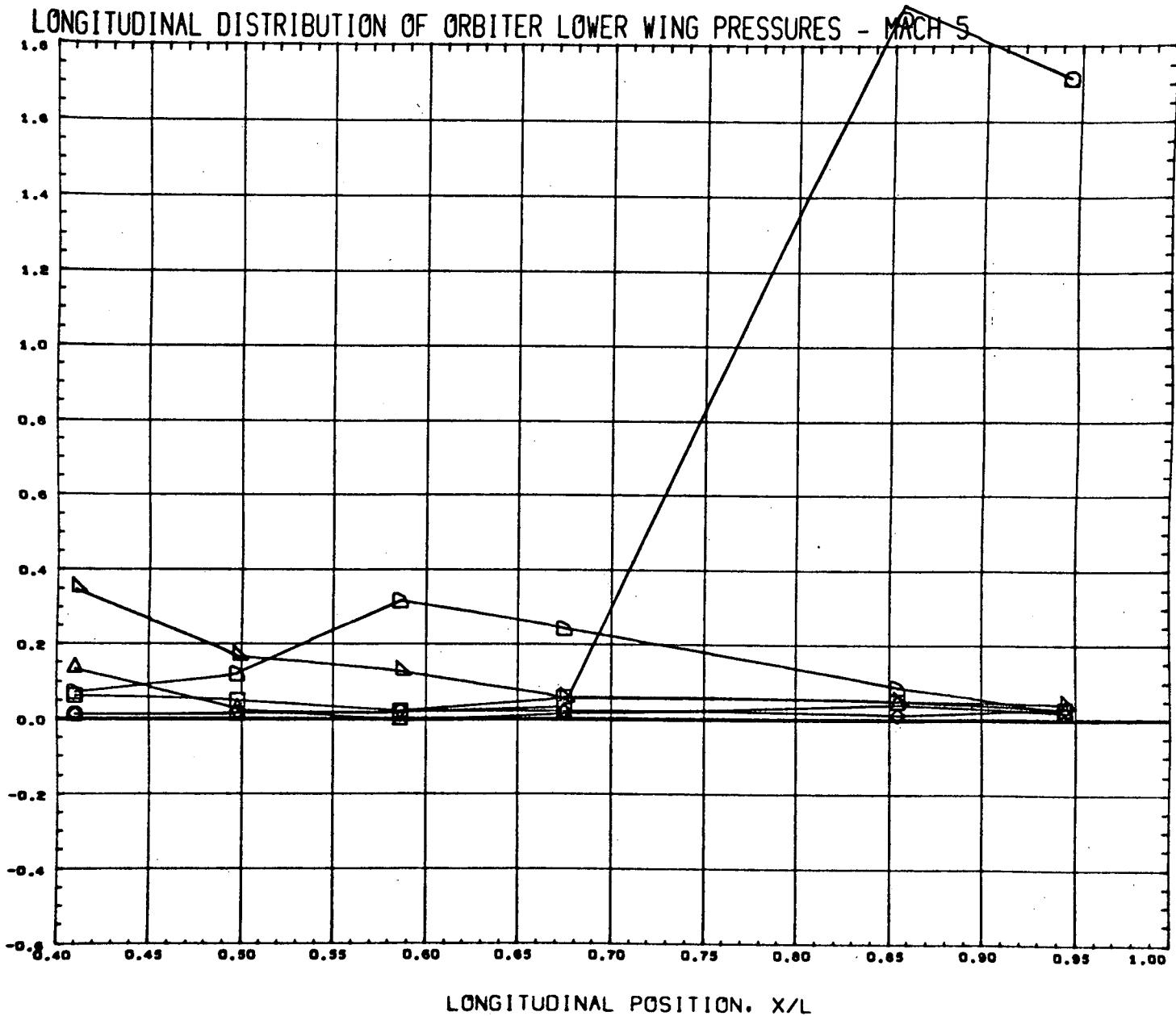
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8535•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



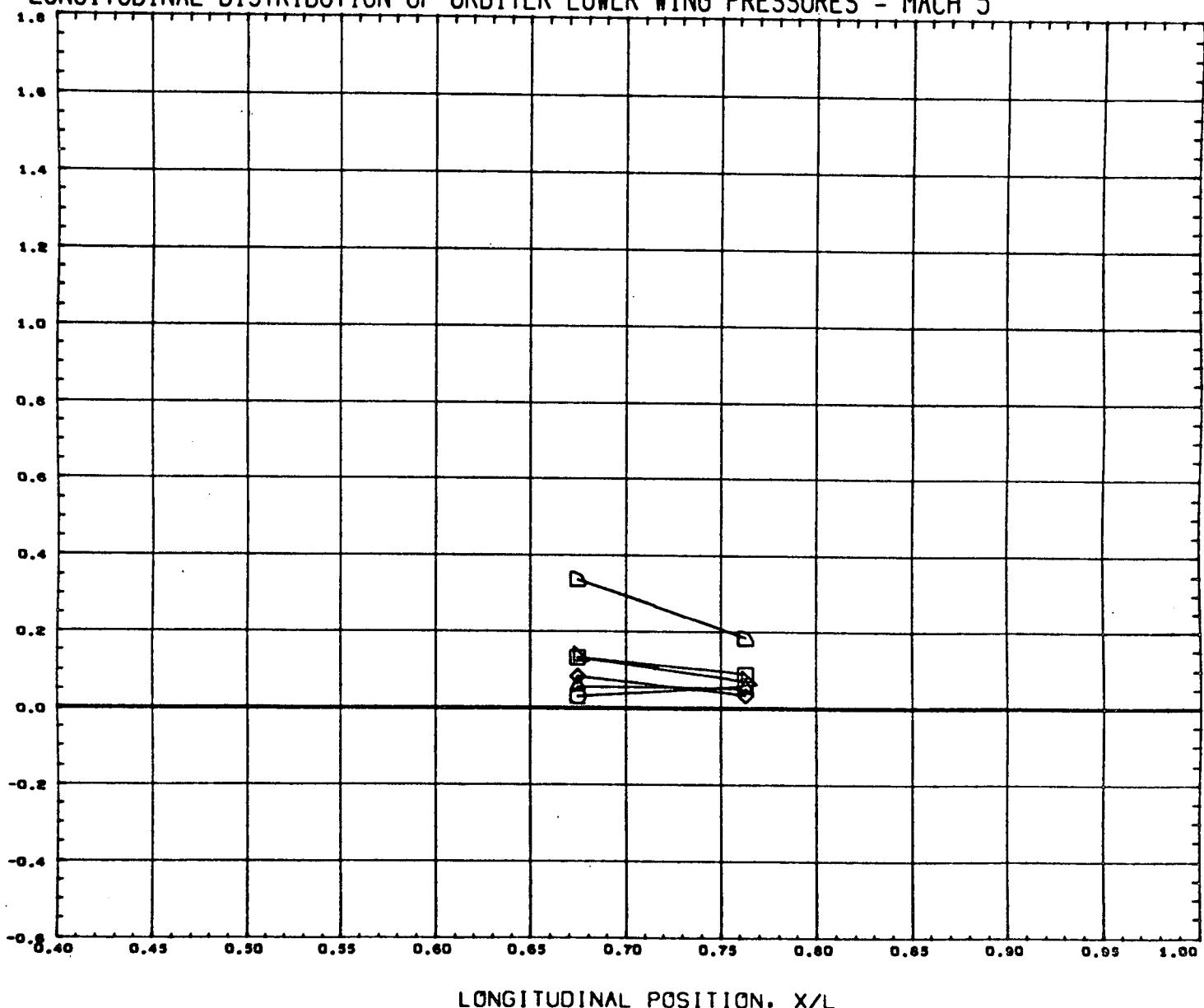
SYMBOL	DELTAX	T/B	DELTAZ
-	0.390	0.230	0.120
-	0.143		
-	0.020		
-	0.103		
-	0.227		
-	0.350		

REFERENCE FILE

PARAMETRIC VALUES		
ALPHAB	10.053	MACH 4.940
ALPHAI	0.000	ORBPOW 100.000
BSTPOW	50.000	

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION. X/L

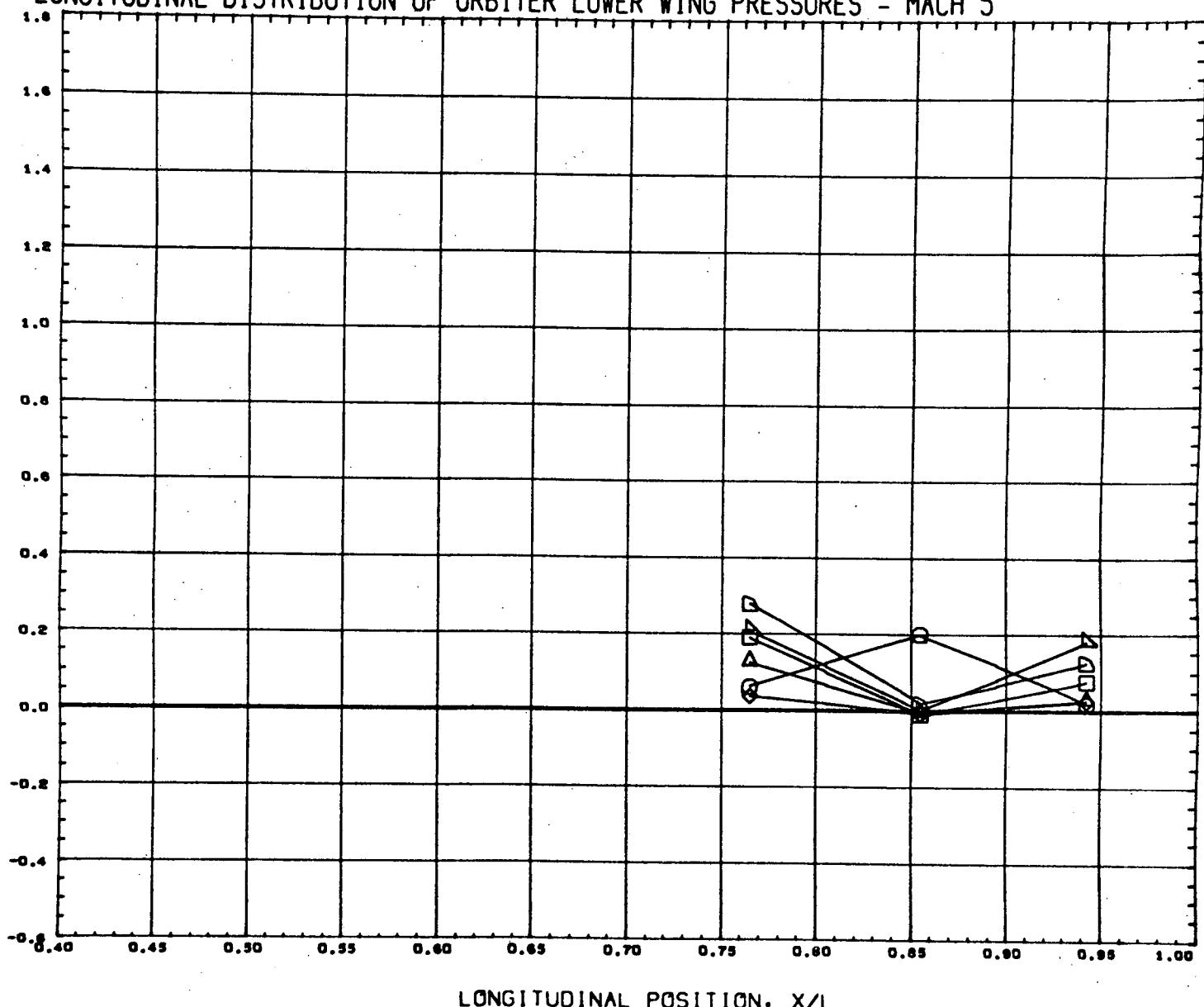
SYMBOL	DELTA X	T/2	DELTA Z
-	0.390	0.399	0.120
-	0.143		
-	0.020		
-	0.103		
-	0.227		
-	0.390		

REFERENCE FILE

PARAMETRIC VALUES		
ALPHAB	10.053	MACH 4.940
ALPHAT	0.000	ORBPOW 100.000
BSTPOW	50.000	

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



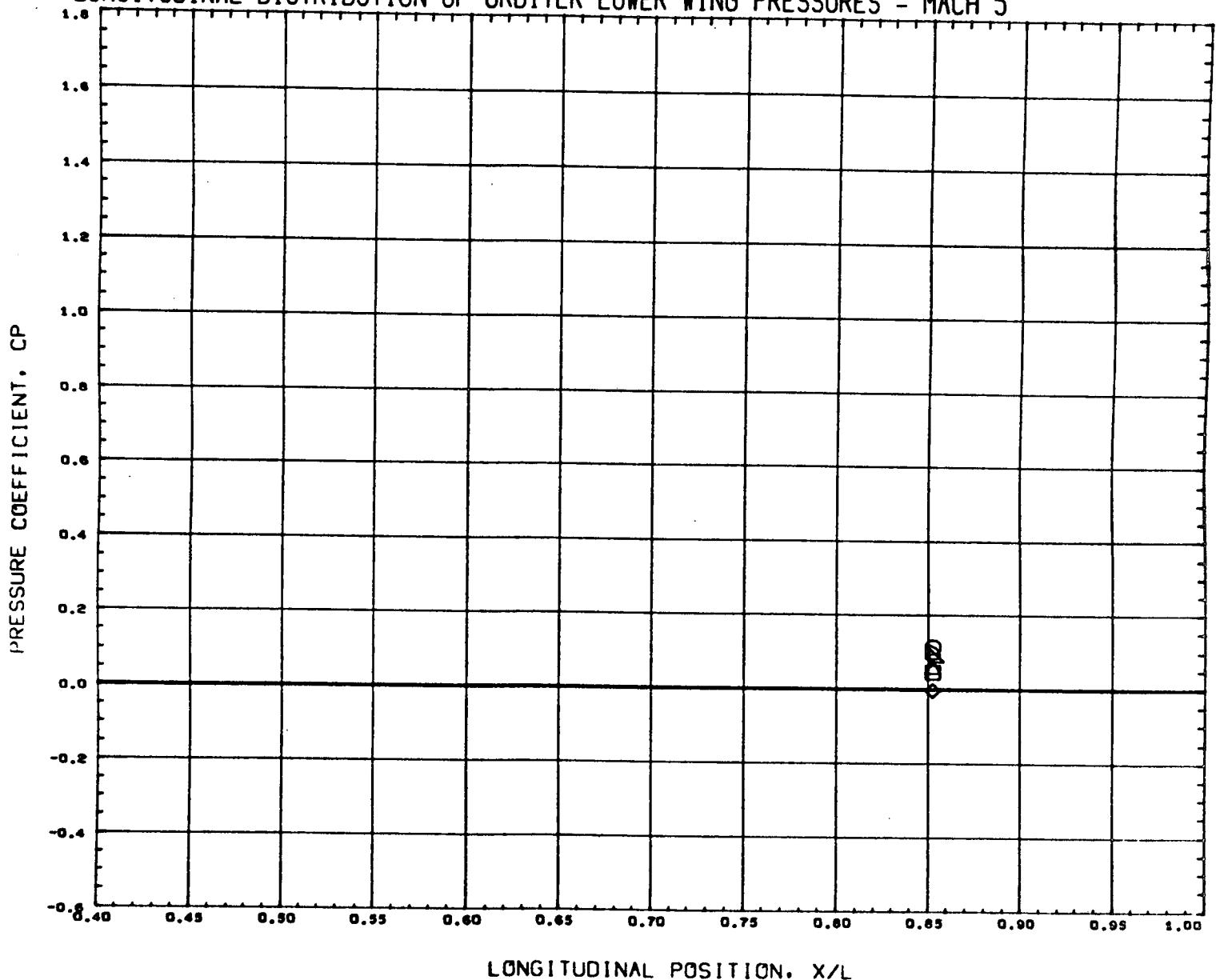
LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	T/B	DELTA Z
-	0.390	0.568	0.120
-	0.143		
-	0.020		
-	0.103		
-	0.227		
-	0.350		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	10.033	MACH	4.940
ALPHAI	0.000	ORBPW	100.000
BSTPOW	50.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

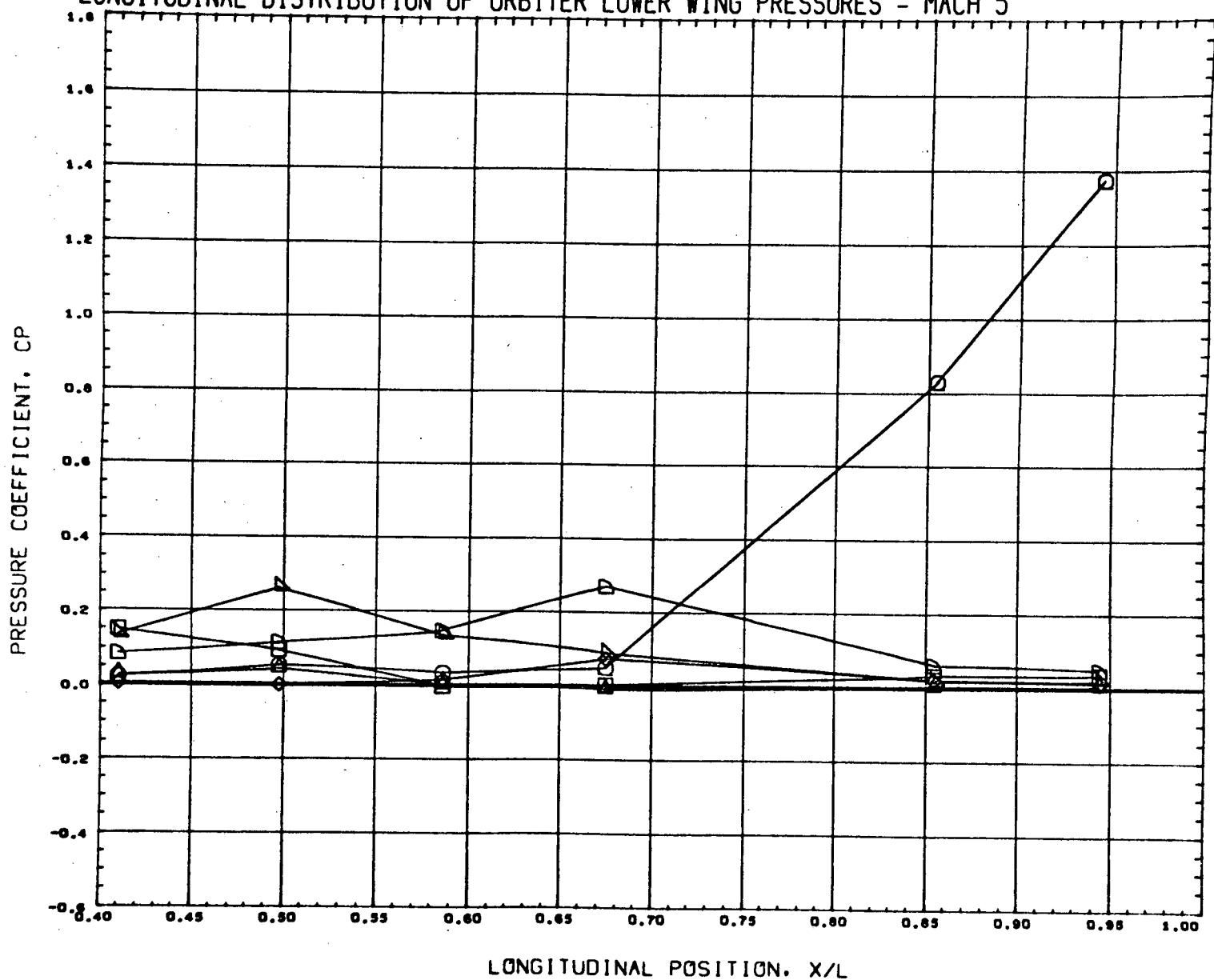


SYMBOL	DELTA X	T/B	DELTA Z
-	0.390	0.738	0.120
-	0.143		
-	0.020		
-	0.103		
-	0.227		
-	0.350		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	10.053	MACH	4.940
ALPHAI	0.000	ORBPOW	100.000
BSTPOW	50.000		

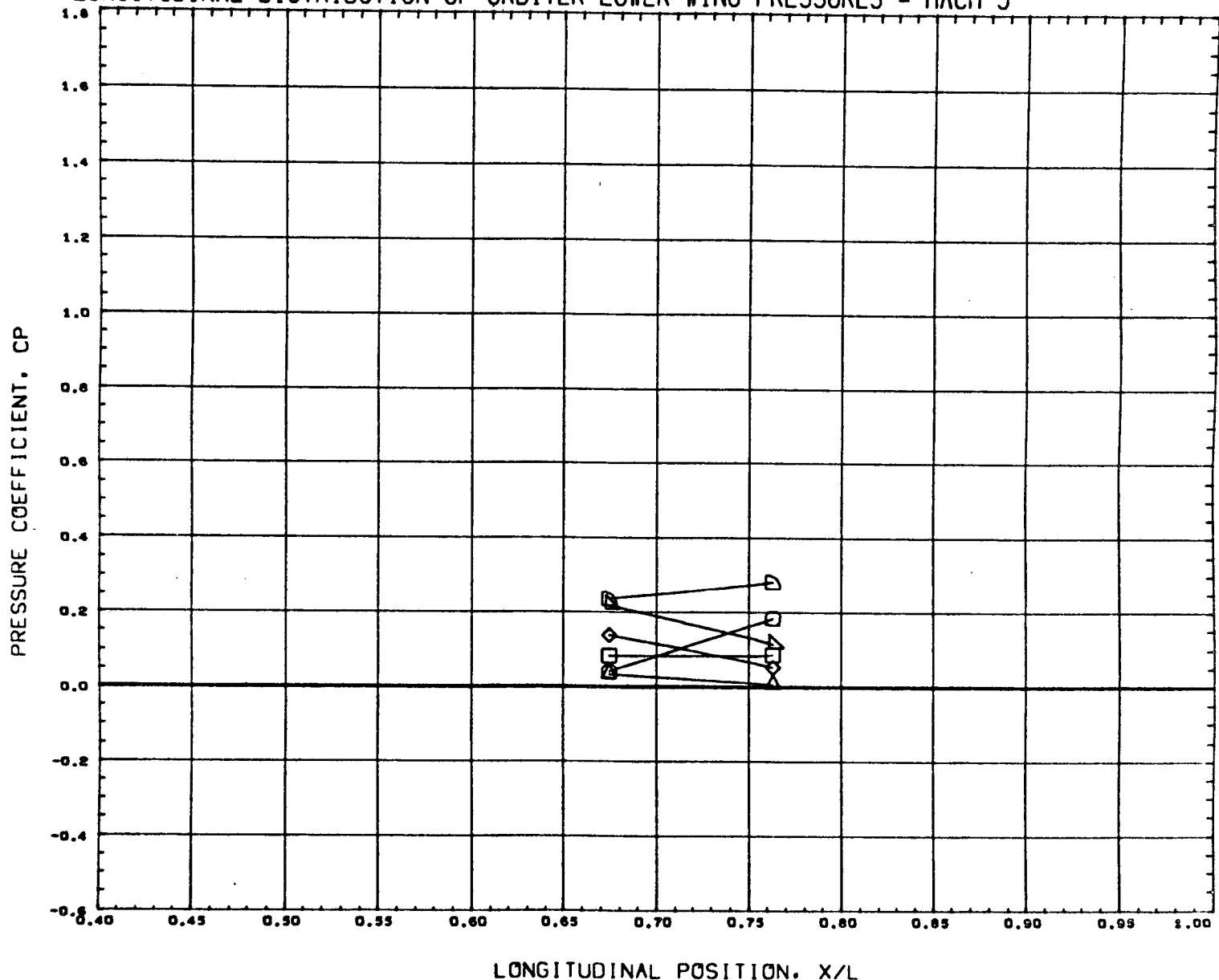
LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL DELTAX T/B DELTAZ
 - 0.390 0.230 0.151
 - 0.143
 - 0.020
 0.103
 0.227
 0.390 REFERENCE FILE

PARAMETRIC VALUES
 ALPHAB 10.033 MACH 4.940
 ALPHAI 0.000 ORBPOW 100.000
 BSTPOW 50.000

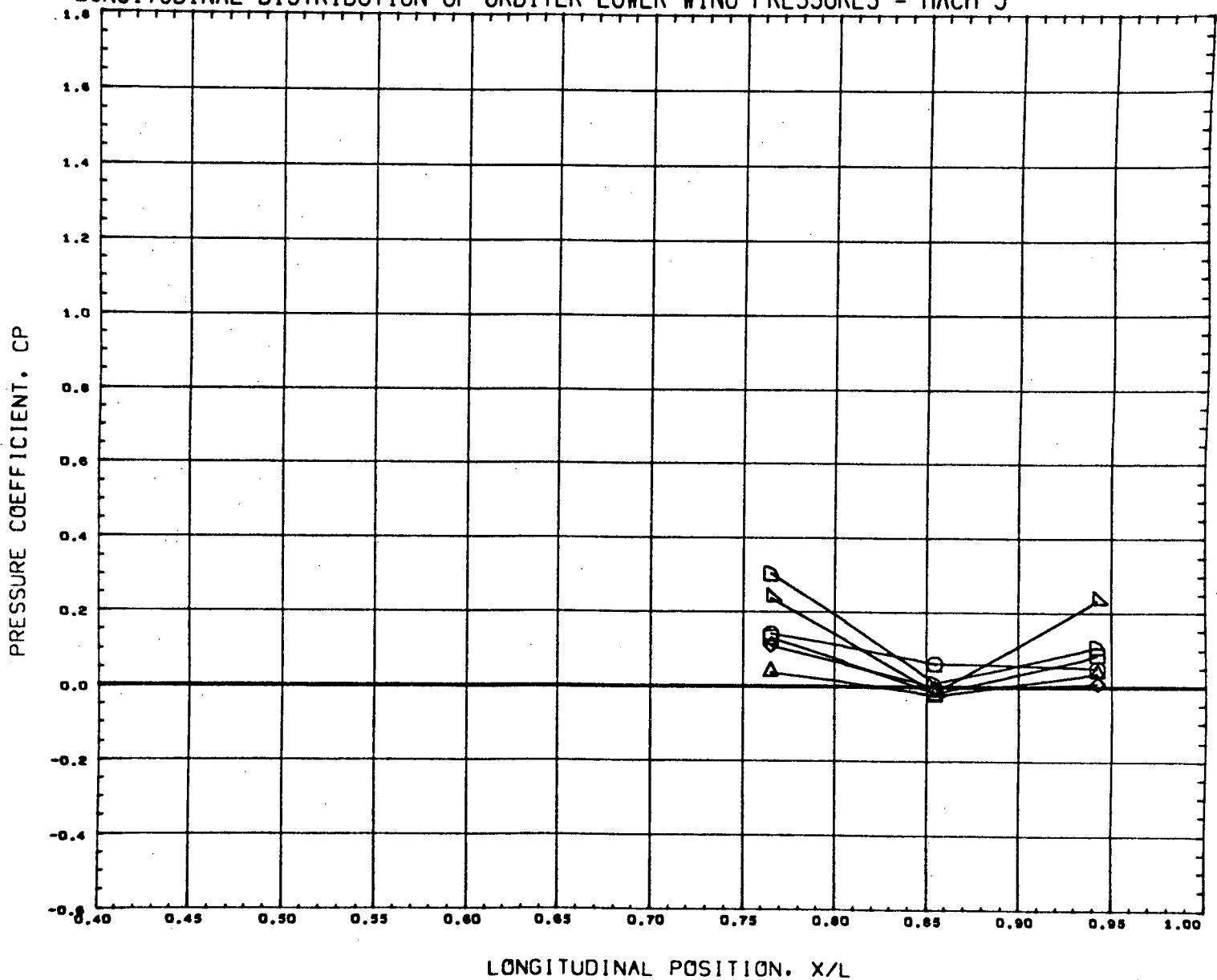
LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL DELTA X Y/B DELTA Z
 - 0.390 0.399 0.151
 - 0.143
 - 0.020
 - 0.103
 - 0.227
 - 0.350 REFERENCE FILE

PARAMETRIC VALUES
 ALPHAB 10.053 MACH 4.940
 ALPHAI 0.000 ORBPOW 100.000
 BSTPOW 50.000

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



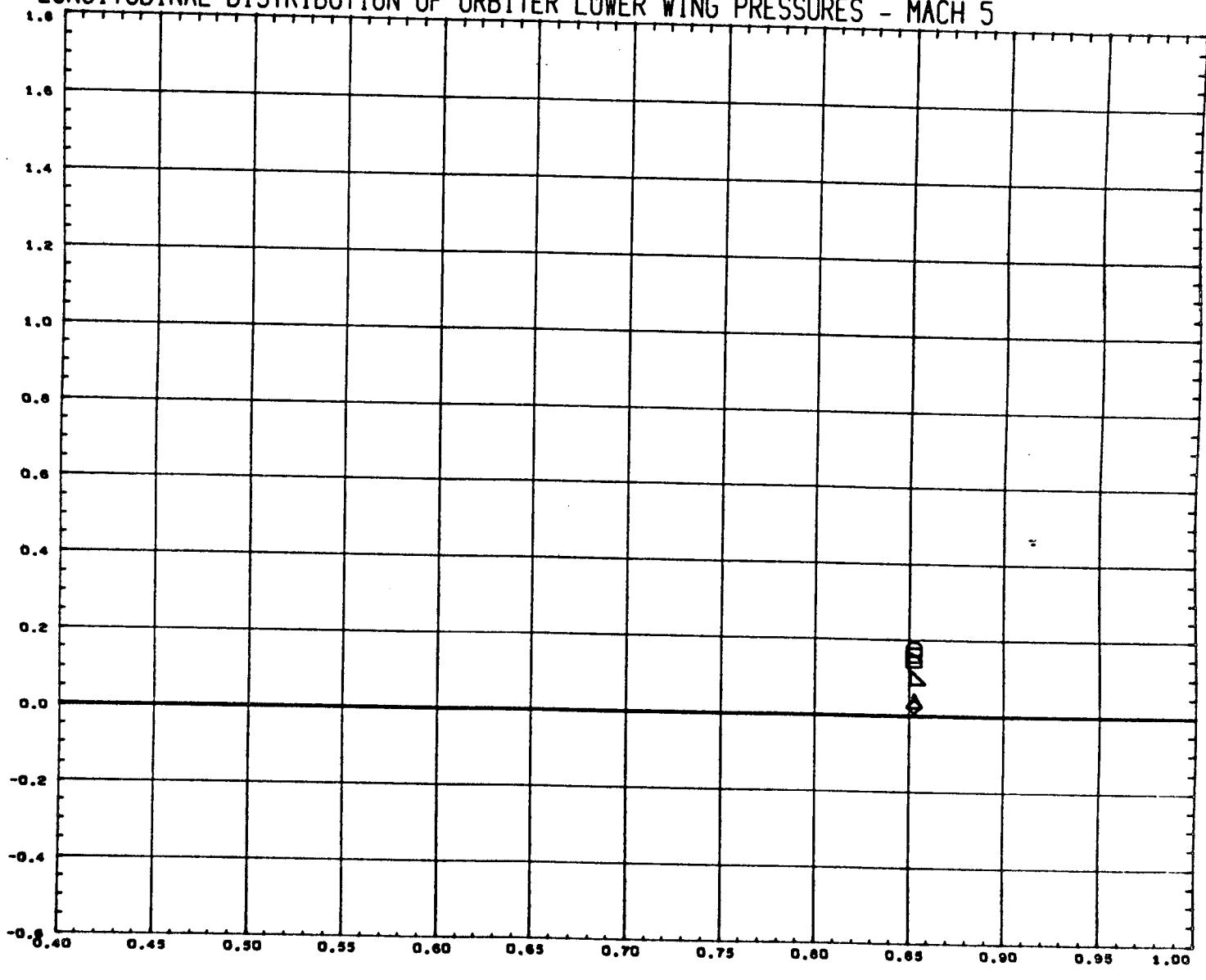
SYMBOL	DELTA X	T/B	DELTA Z
-	0.390	0.568	0.151
-	0.143		
-	0.020		
0.103			
0.227			
0.350			

REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	10.053	MACH	4.940
ALPHAZ	0.000	ORBFOW	100.000
BSTPOW	90.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP

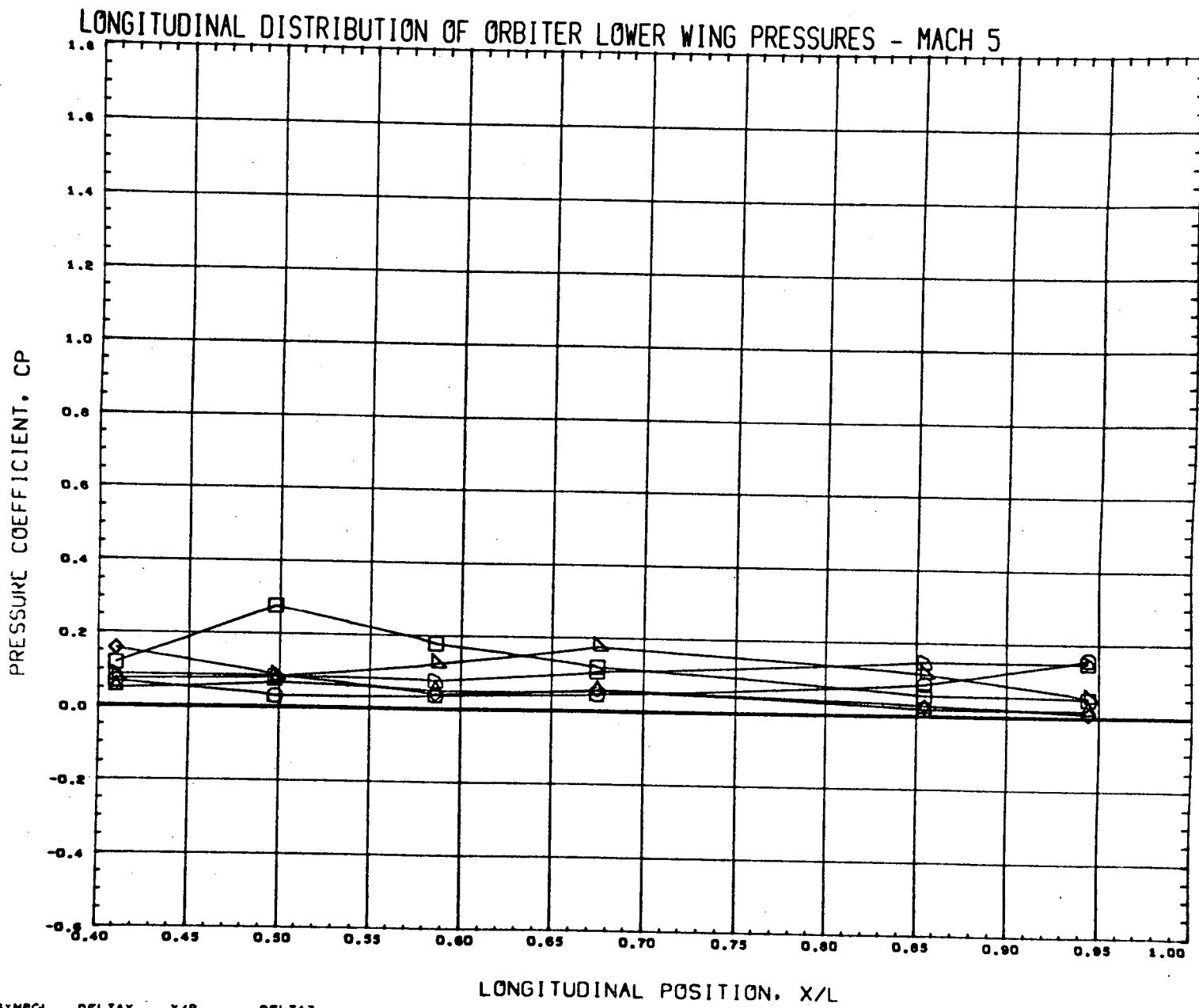


LONGITUDINAL POSITION. X/L

SYMBOL	DELTA X	Y/B	DELTA Z
-	0.390	0.730	0.151
-	0.143		
-	0.020		
-	0.103		
-	0.227		
-	0.350		

REFERENCE FILE

PARAMETRIC VALUES		
ALPHAB	10.053	MACH 4.940
ALPHAI	0.000	ORBPOW 100.000
BSTPOW	50.000	

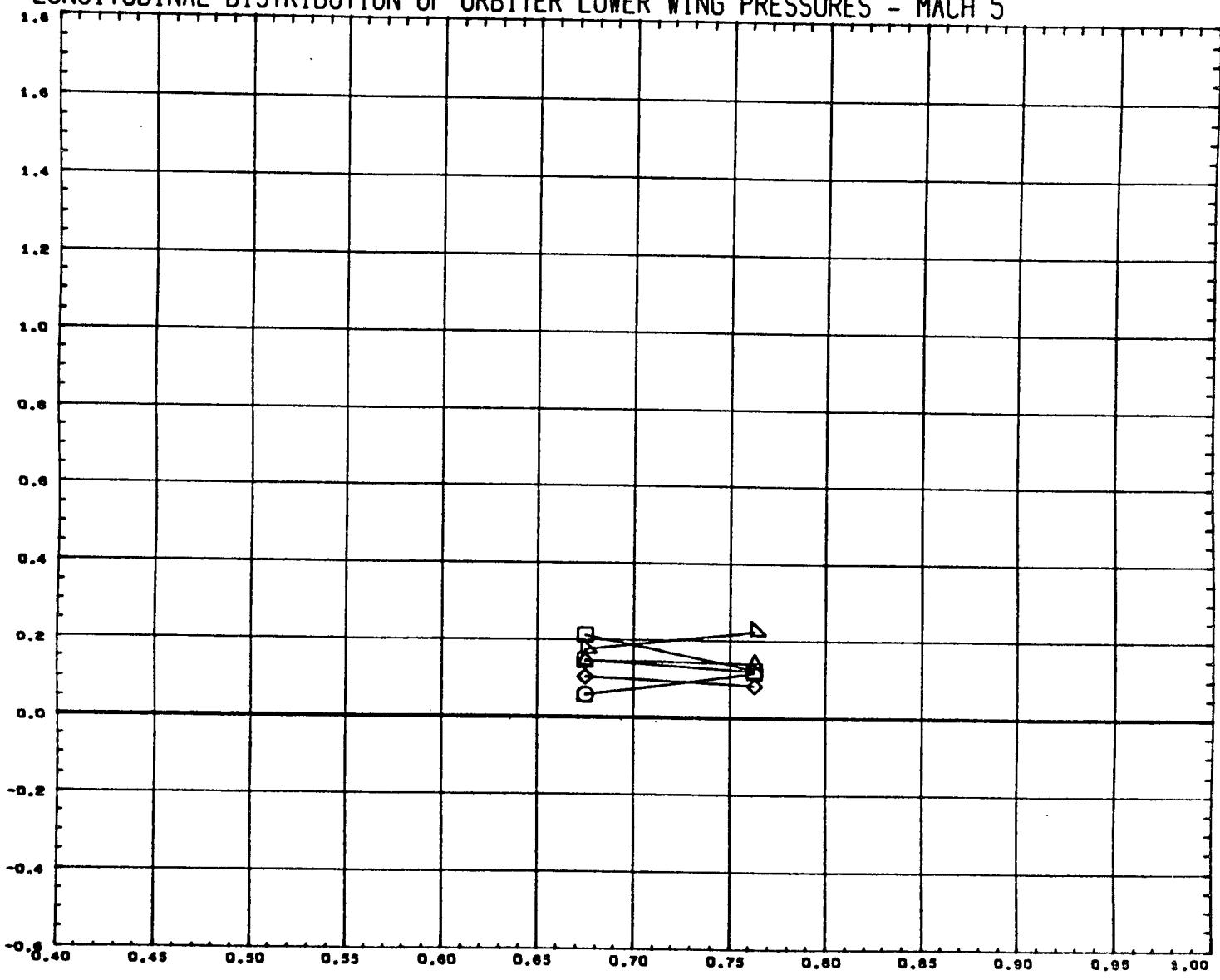


SYMBOL	DELTAX	T/B	DELTAZ
-	0.390	0.230	0.226
-	0.143		
-	0.020		
-	0.103		
-	0.287		
-	0.350		
REFERENCE FILE			

PARAMETRIC VALUES			
ALPHAB	10.053	MACH	4.940
ALPHAI	0.000	ORBPOW	100.000
BSTPOW	50.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



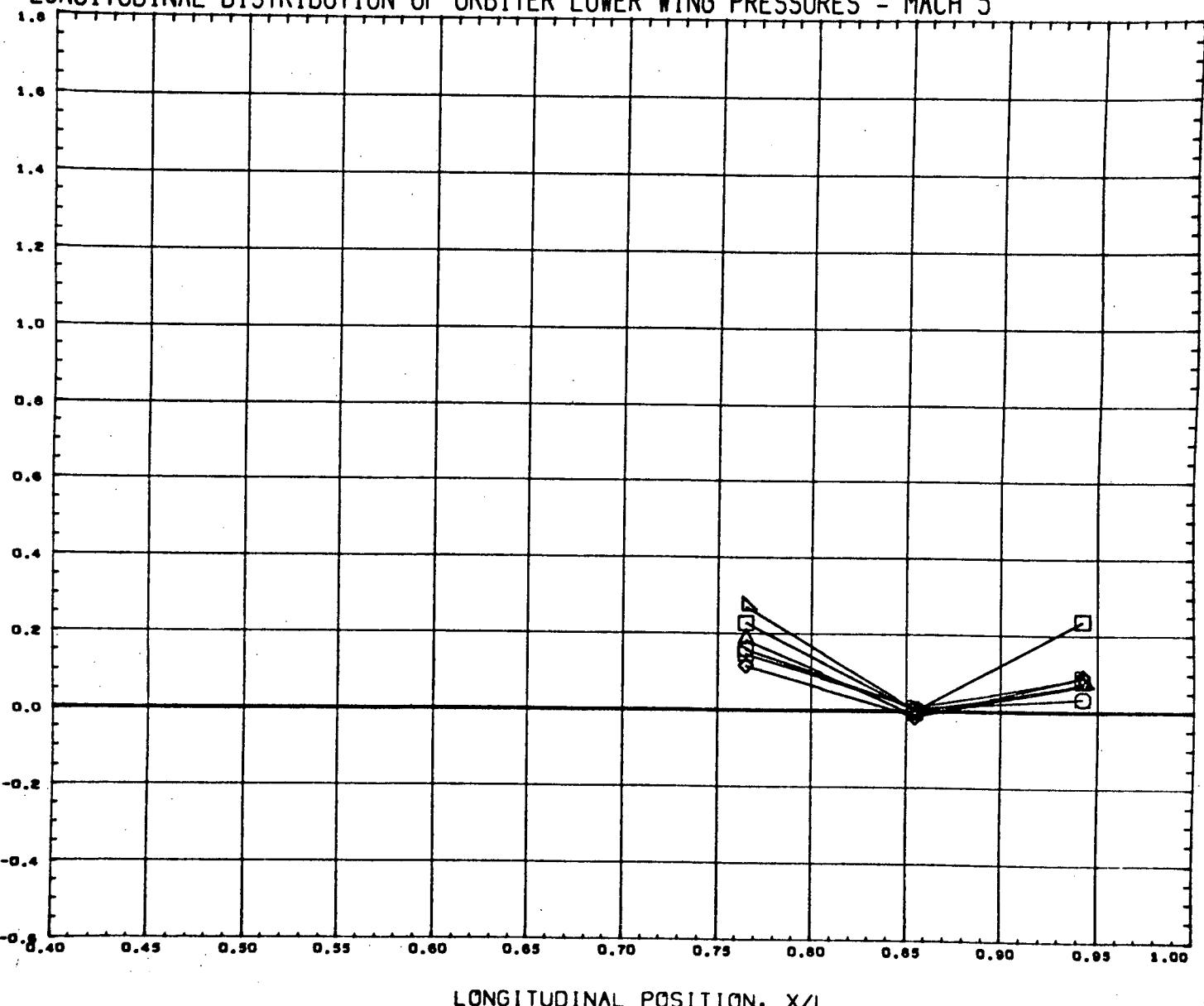
LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
-	0.390	0.399	0.220
-	0.143		
-	0.020		
-	0.103		
-	0.227		
-	0.350	REFERENCE FILE	

PARAMETRIC VALUES			
ALPHAB	10.053	MACH	4.940
ALPHAT	0.000	ORBPOW	100.000
BSTPOW	50.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



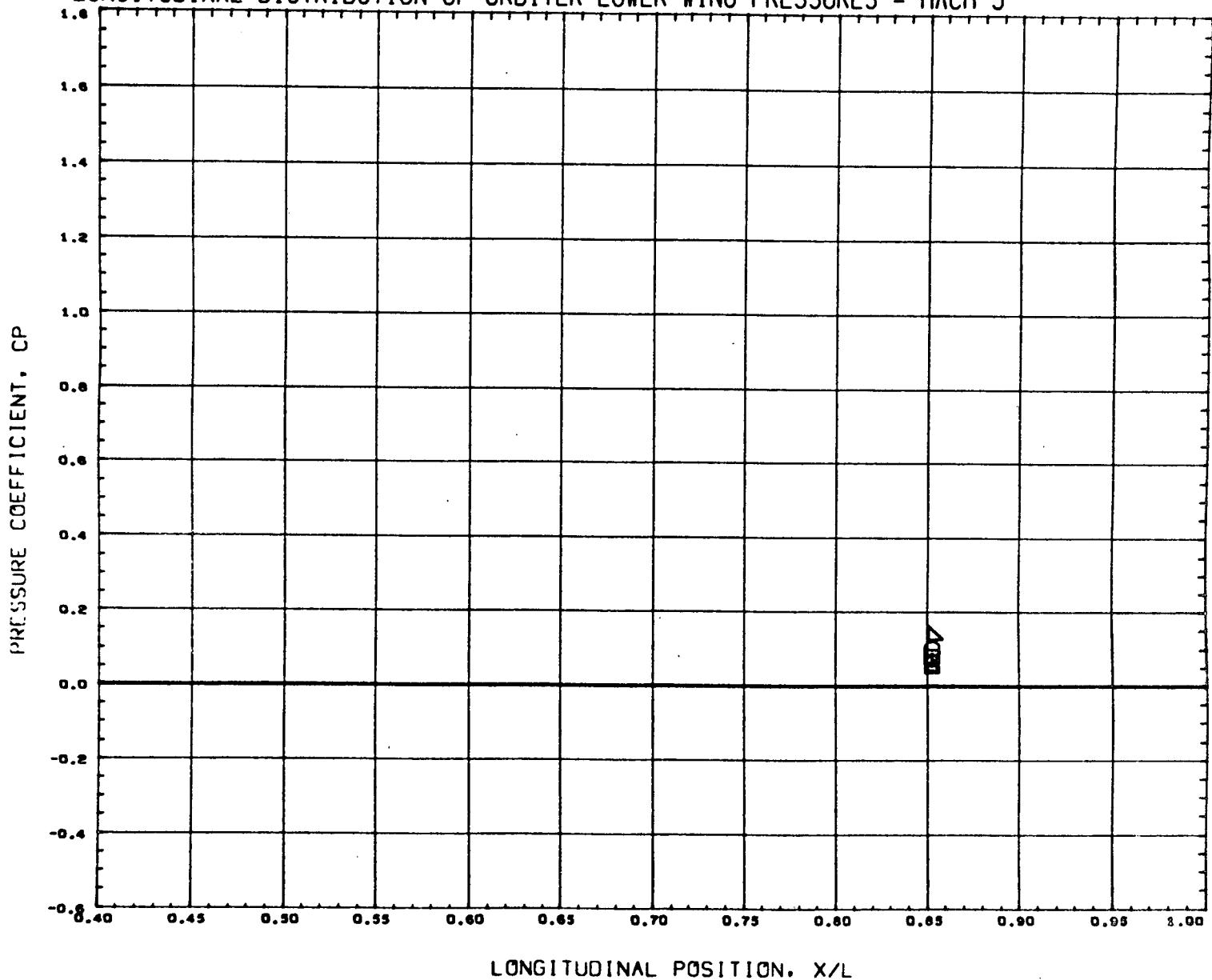
LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
-	0.390	0.568	0.228
-	0.143		
-	0.020		
-	0.103		
-	0.227		
-	0.390		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	10.093	MACH	4.940
ALPHAI	0.000	ORBPOW	100.000
BSTPOW	50.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



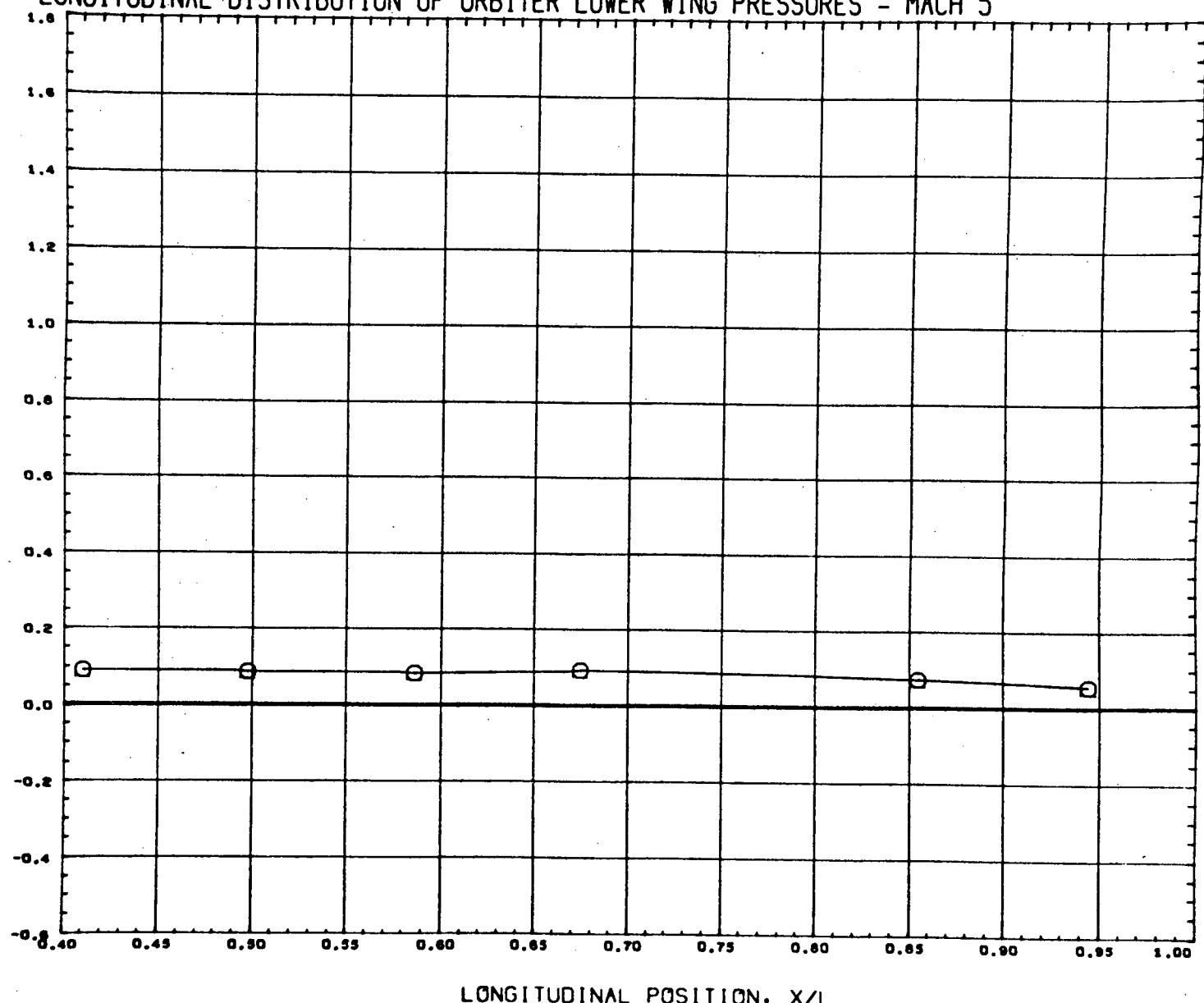
SYMBOL	DELTA X	T/E	DELTA Z
-	0.390	0.739	0.228
-	0.143		
-	0.020		
-	0.103		
-	0.227		
-	0.390		

REFERENCE FILE

PARAMETRIC VALUES		
ALPHAB	10.053	MACH 4.940
ALPHAI	0.000	ORBPOW 100.000
BSTPOW	50.000	

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION, X/L

SYMBOL DELTAX Y/E DELTAZ
□ 0.520 0.230 0.905

PARAMETRIC VALUES		
ALPHAB	10.093	MACH 4.940
ALPHAI	0.000	ORBPOW 100.000
BSTPOW	50.000	

REFERENCE FILE

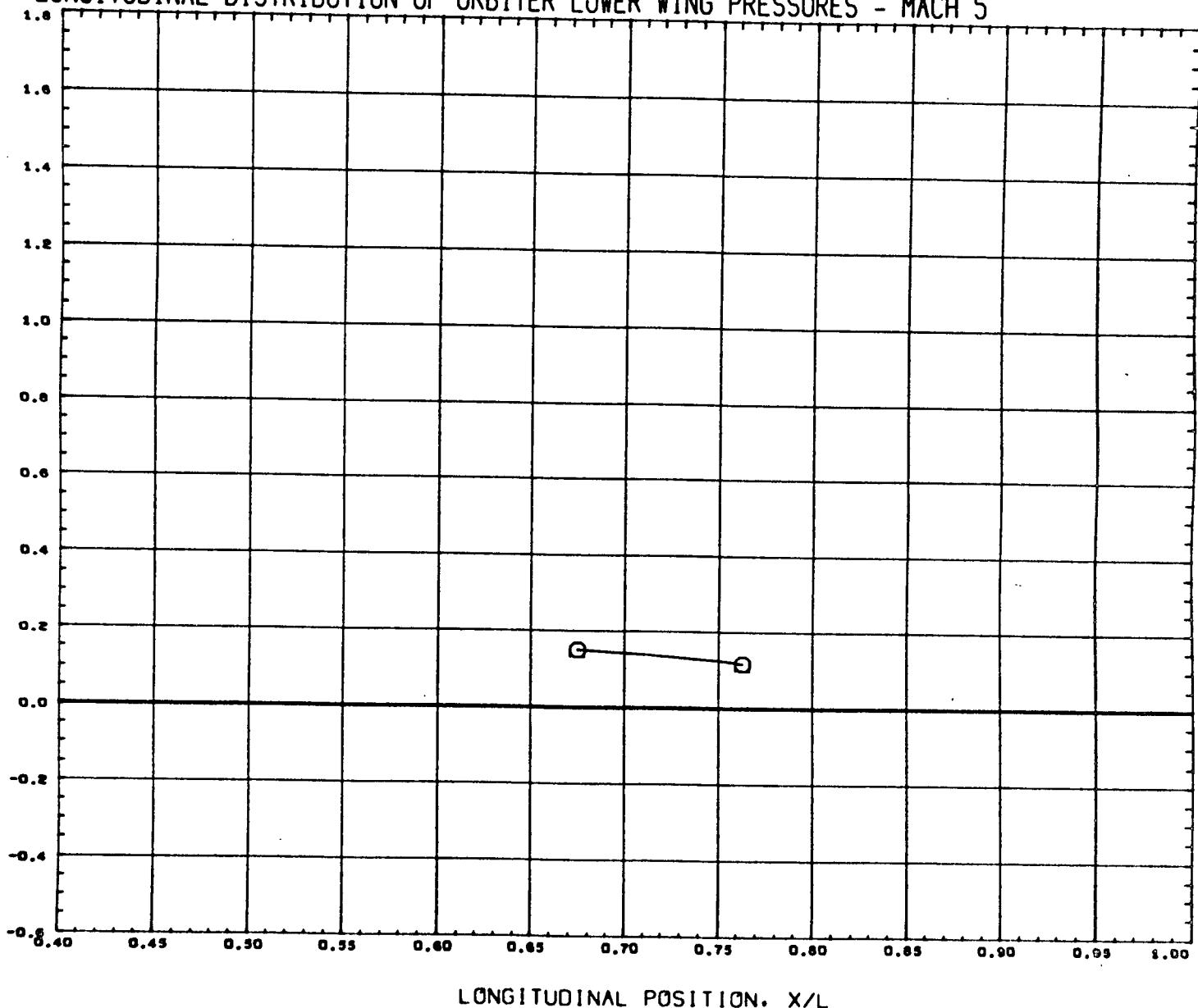
AEDC VAI163 MDAC ORBITER (LOWER WING)

•HT8535•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
C	0.520	0.399	0.908

PARAMETRIC VALUES			
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ALPHAI	0.000	ORBPOW	100.000
BSTPOW	50.000		

REFERENCE FILE

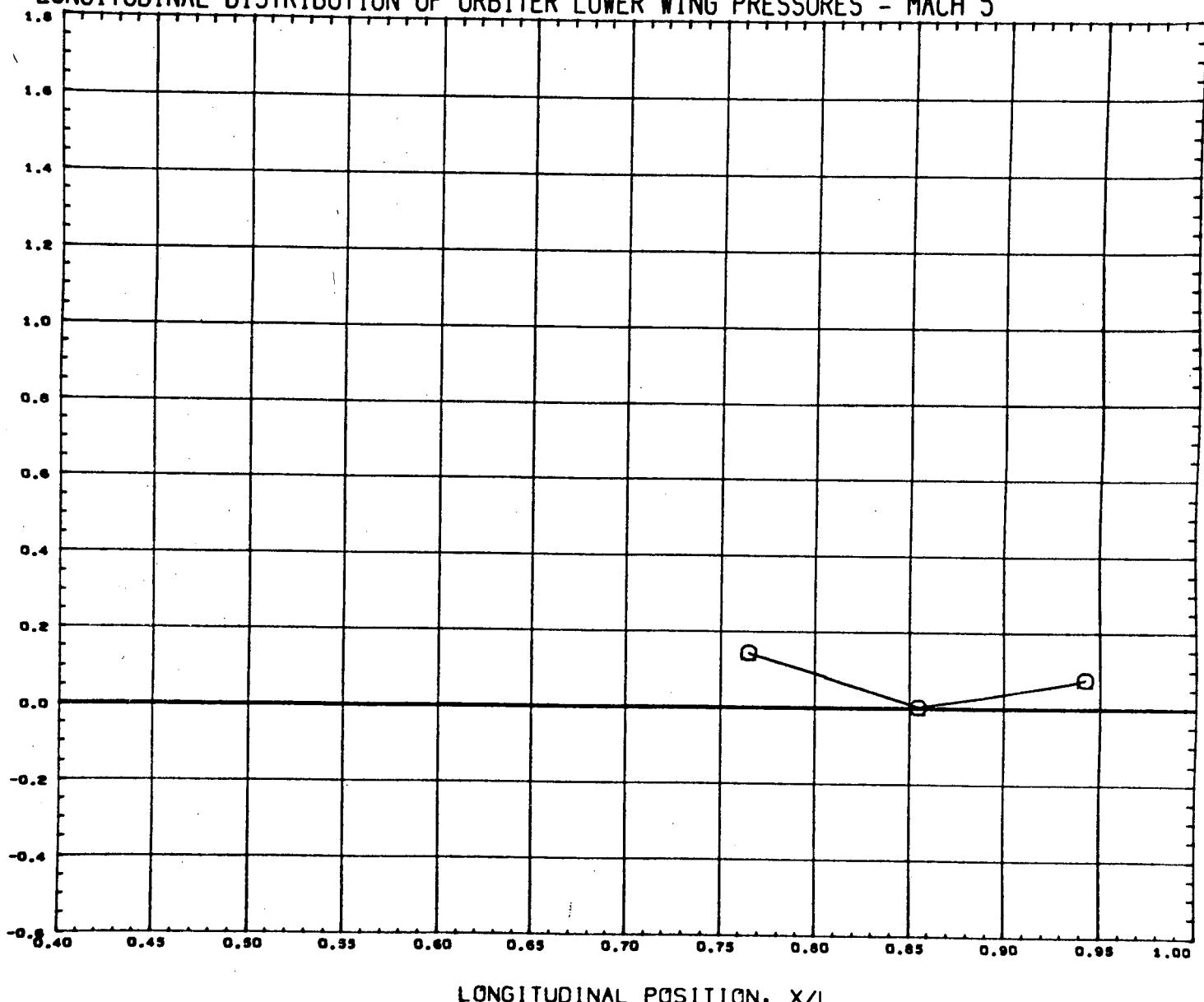
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8535•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION, X/L

SYMBOL DELTAX T/B DELTAZ
○ 0.520 0.368 0.908

	ALPHAB	MACH	4.940
ALPHAT	0.000	ORBPOW	100.000
BSTPOW	50.000		

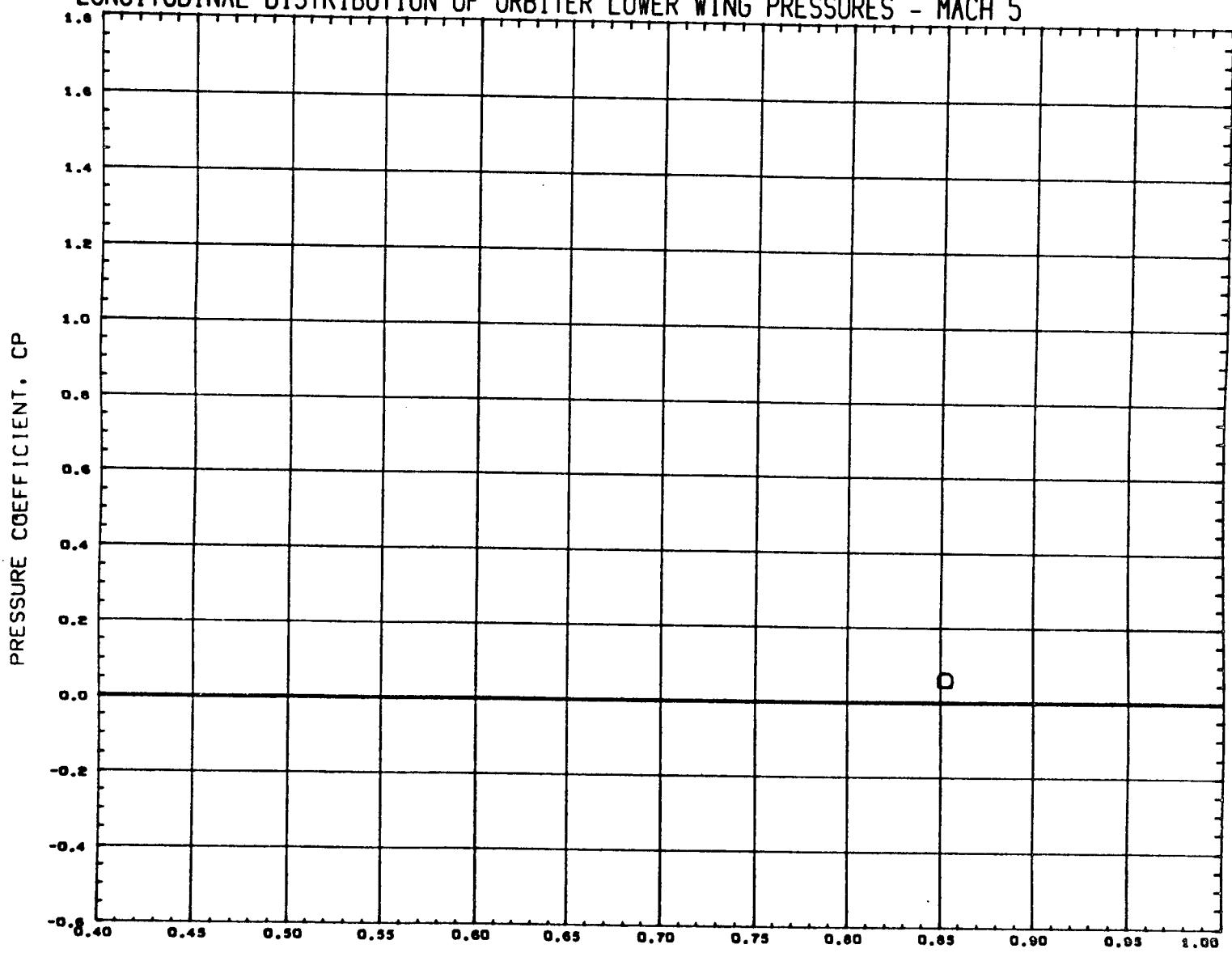
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AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8535•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMOL DELTAX Y/B DELTAZ

C 0.920 0.739 0.908

PARAMETRIC VALUES

	ALPHAB	MACH	ORBPOW
	10.053	4.940	100.000
	0.000		
	50.000		

REFERENCE FILE

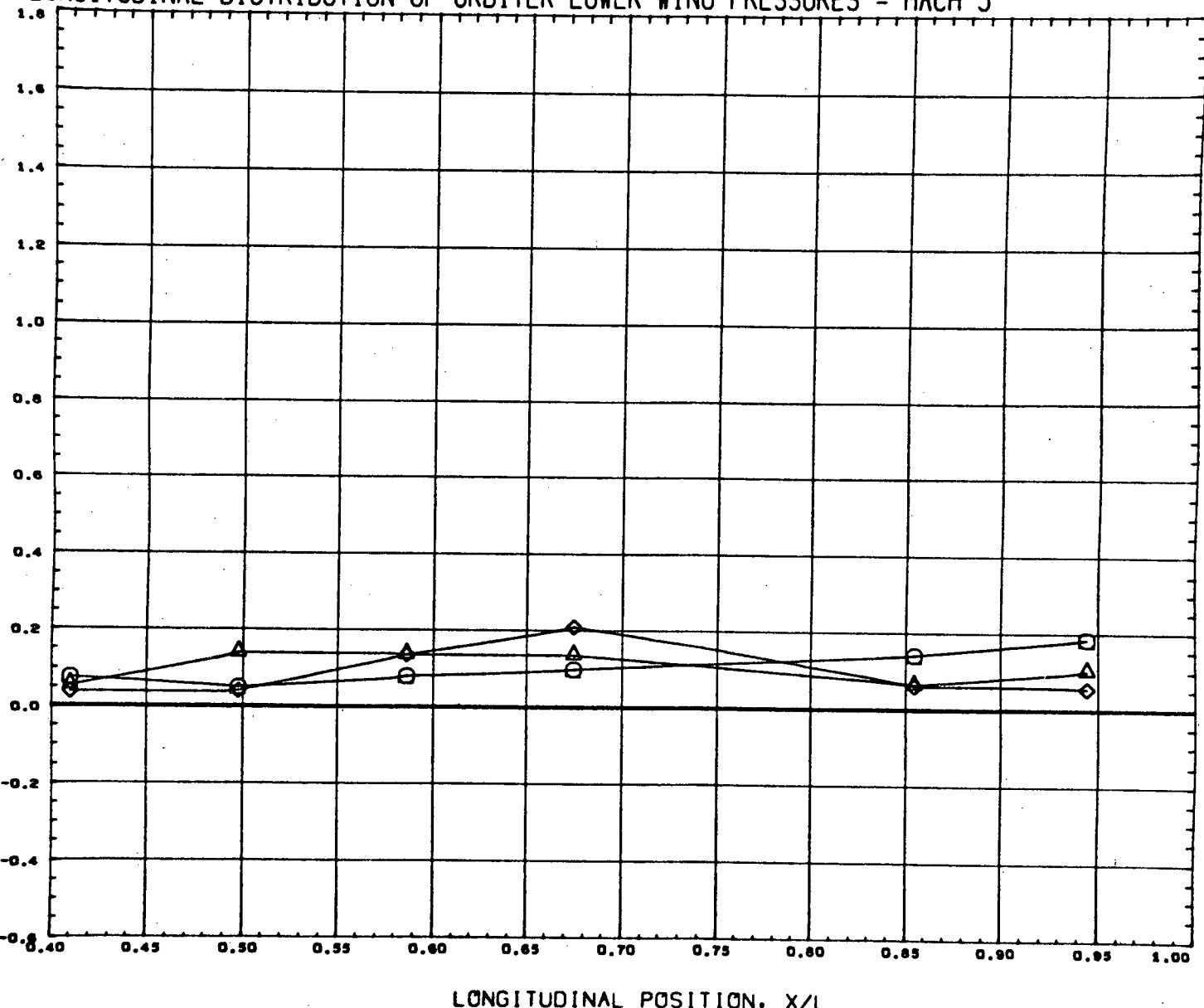
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8535•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
C	- 0.144	0.230	0.150
△	0.103		
◊	0.226		

PARAMETRIC VALUES		
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ALPHAT	5.000	ORBPOW 100.000
BSTPOW	50.000	

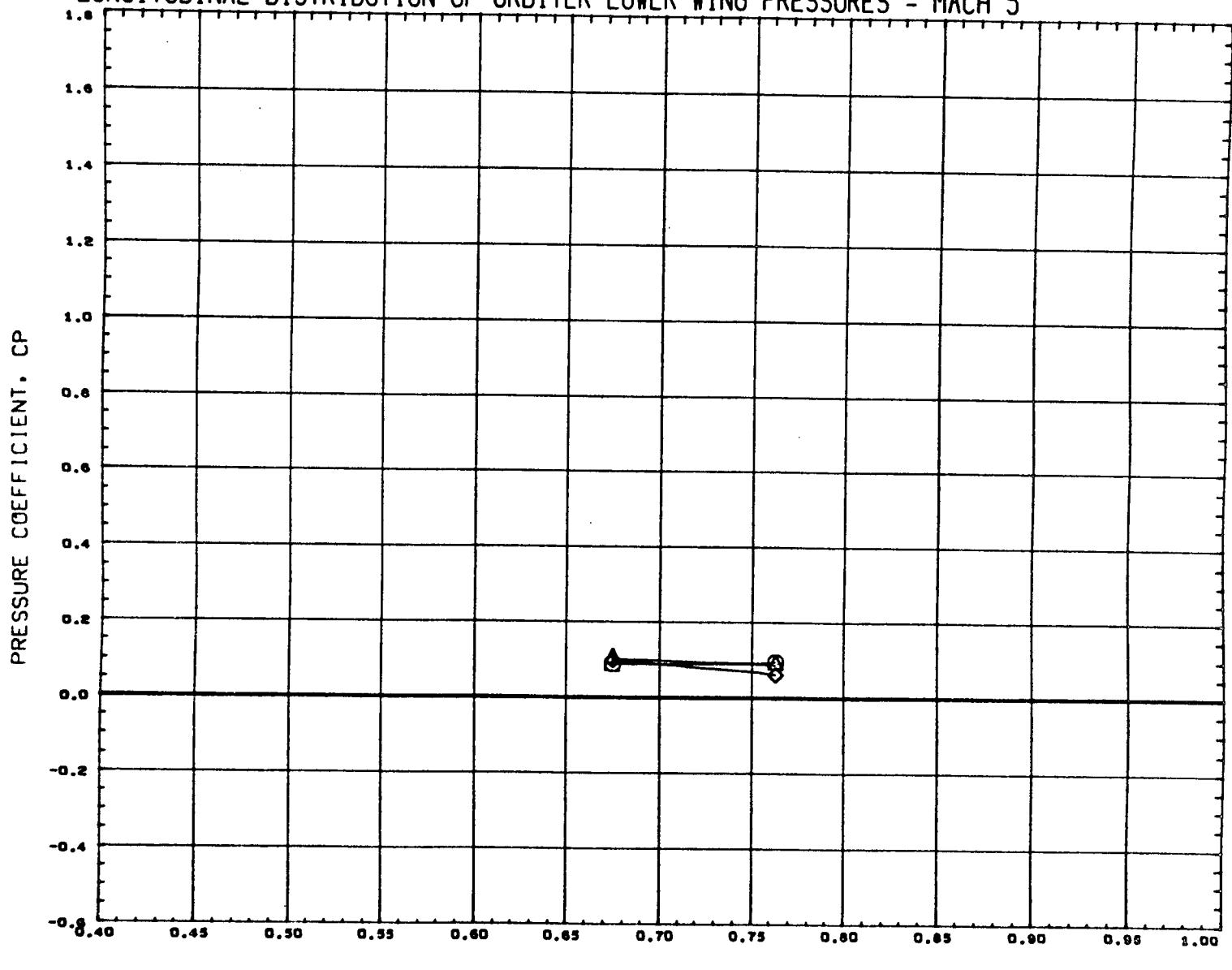
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8541•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	-	0.144	0.399
△		0.103	
◊		0.226	

PARAMETRIC VALUES			
ALPHAB	-	9.920	MACH
ALPHAI		3.000	ORBPOW
BSTPOW		50.000	

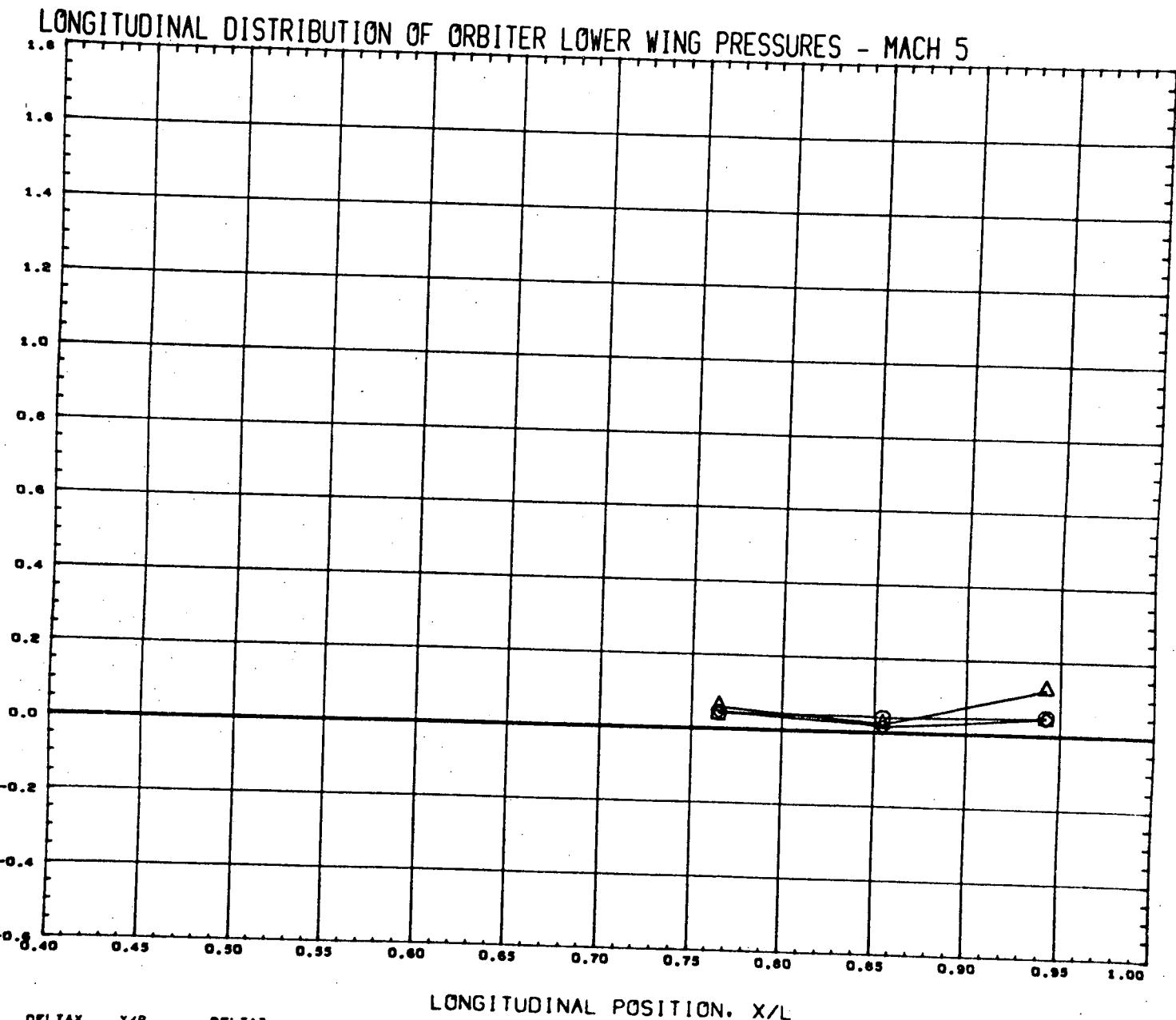
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8541•

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PRESSURE COEFFICIENT, CP



SYMBOL	DELTA X	Y/2	DELTA Z
-	0.144	0.568	0.190
○	0.193		
◊	0.226		

PARAMETRIC VALUES		
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ALPHAI	5.000	ORBPOW 100.000
BSTPOW	50.000	

REFERENCE FILE

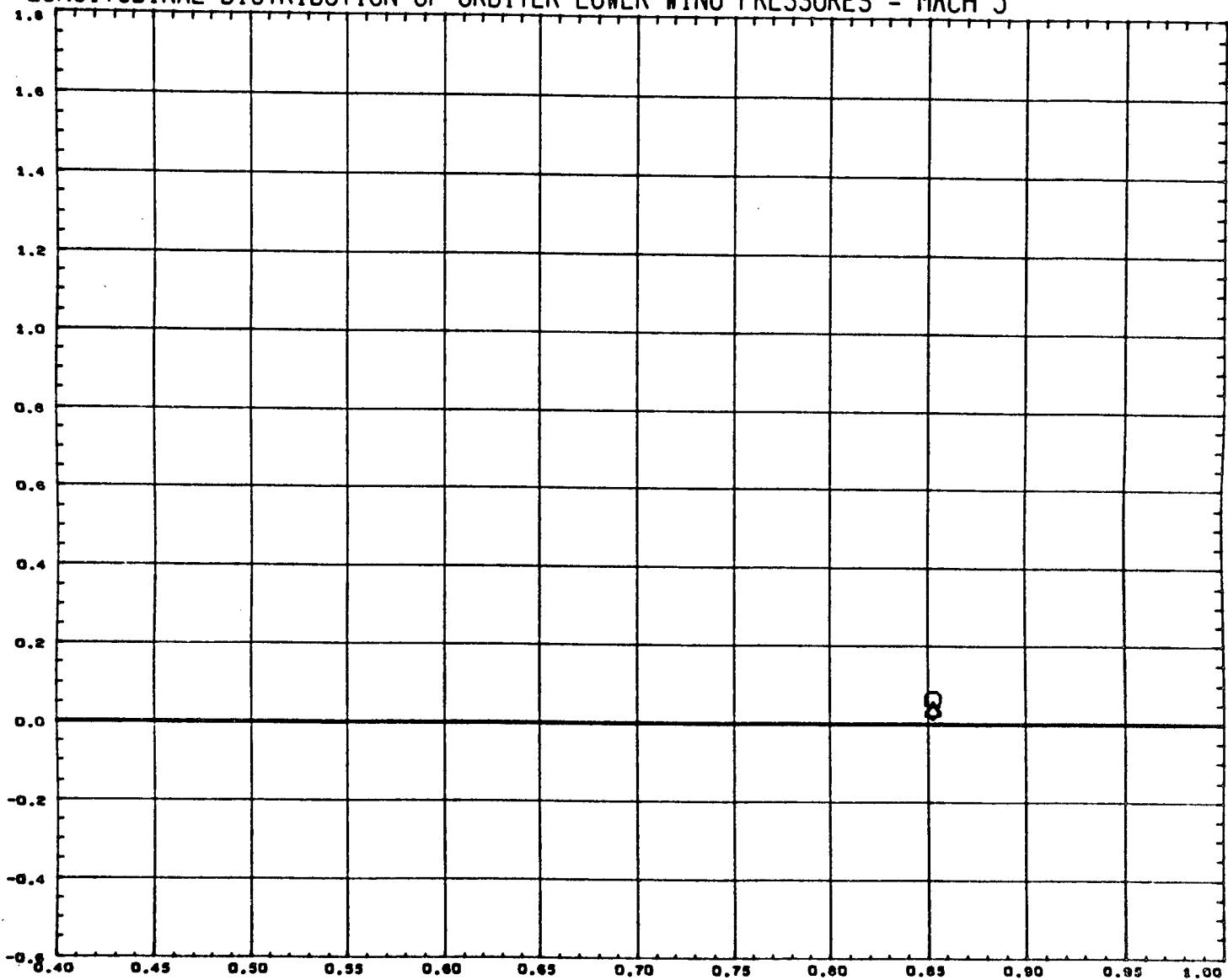
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8541•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL	DELTA X	T/B	DELTA Z
C	- 0.144	0.736	0.150
△	0.103		
◊	0.226		

PARAMETRIC VALUES			
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ALPHAI	5.000	ORBPOW	100.000
BSTPOW	50.000		

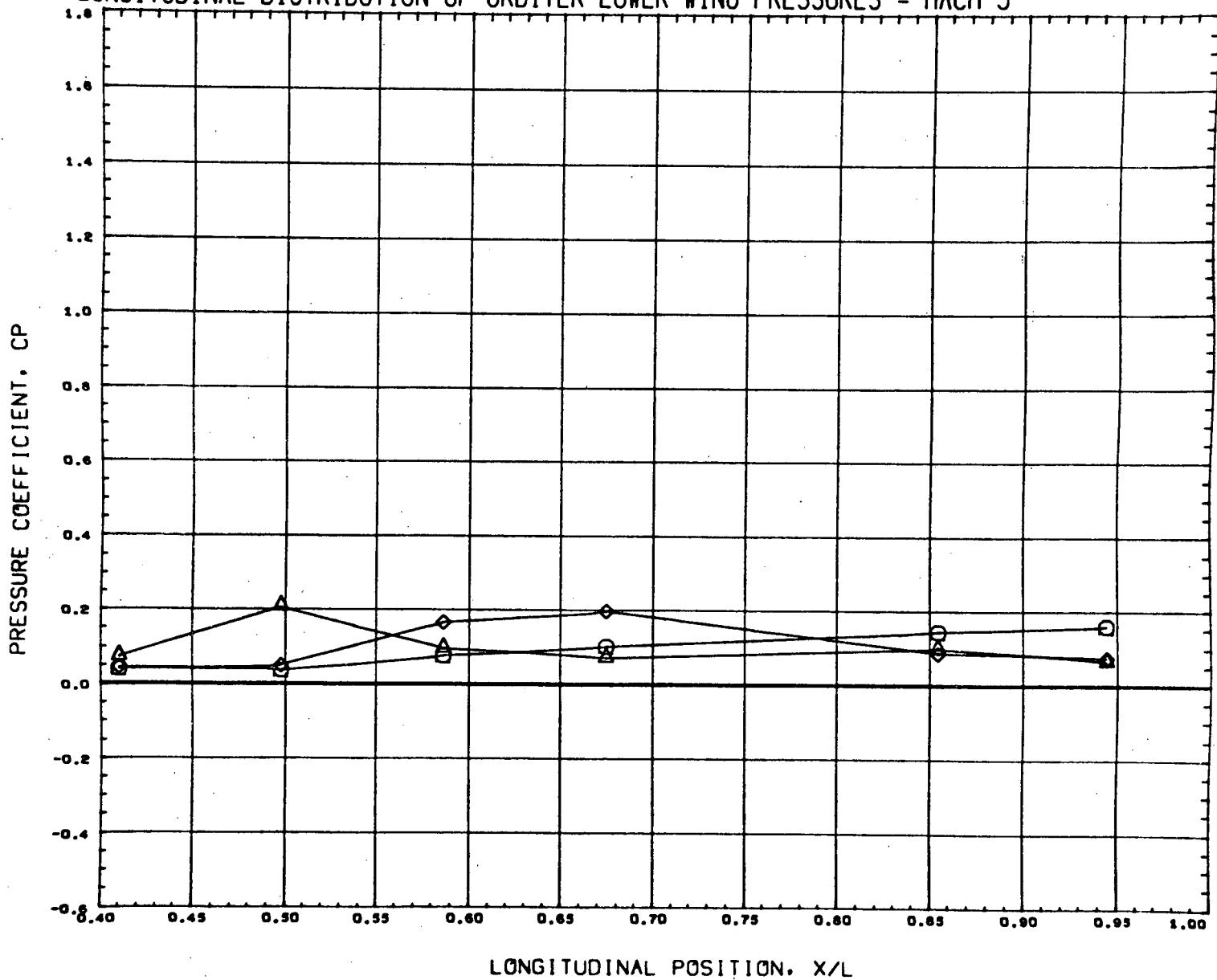
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AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8541•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL DELTAX T/B DELTAZ
 C - 0.144 0.230 0.150
 D 0.103 0.226

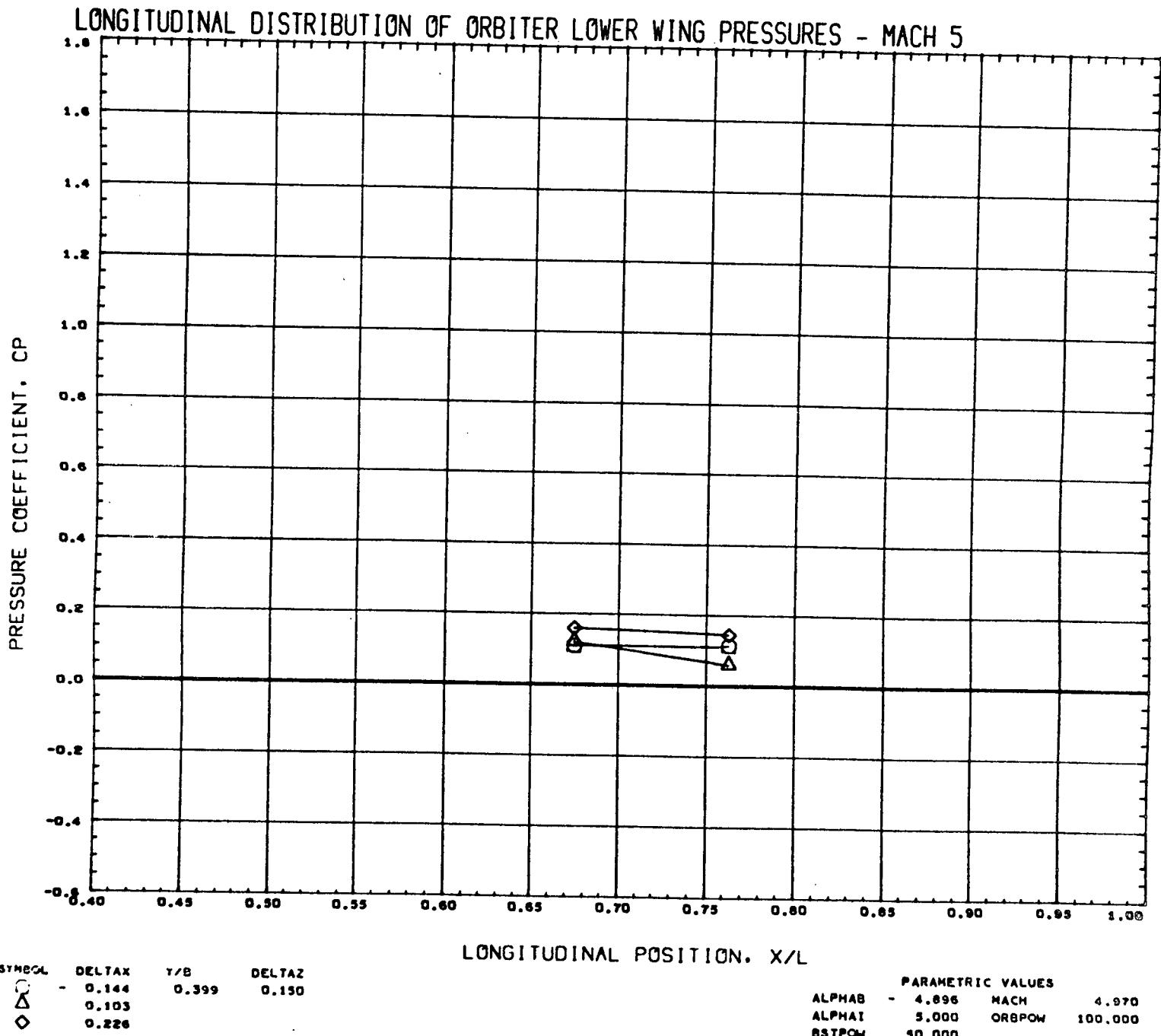
PARAMETRIC VALUES
 ALPHAB = 4.896 MACH = 4.970
 ALPHAI = 5.000 ORBPOW = 100.000
 BSTPOW = 50.000

REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8542•

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REFERENCE FILE

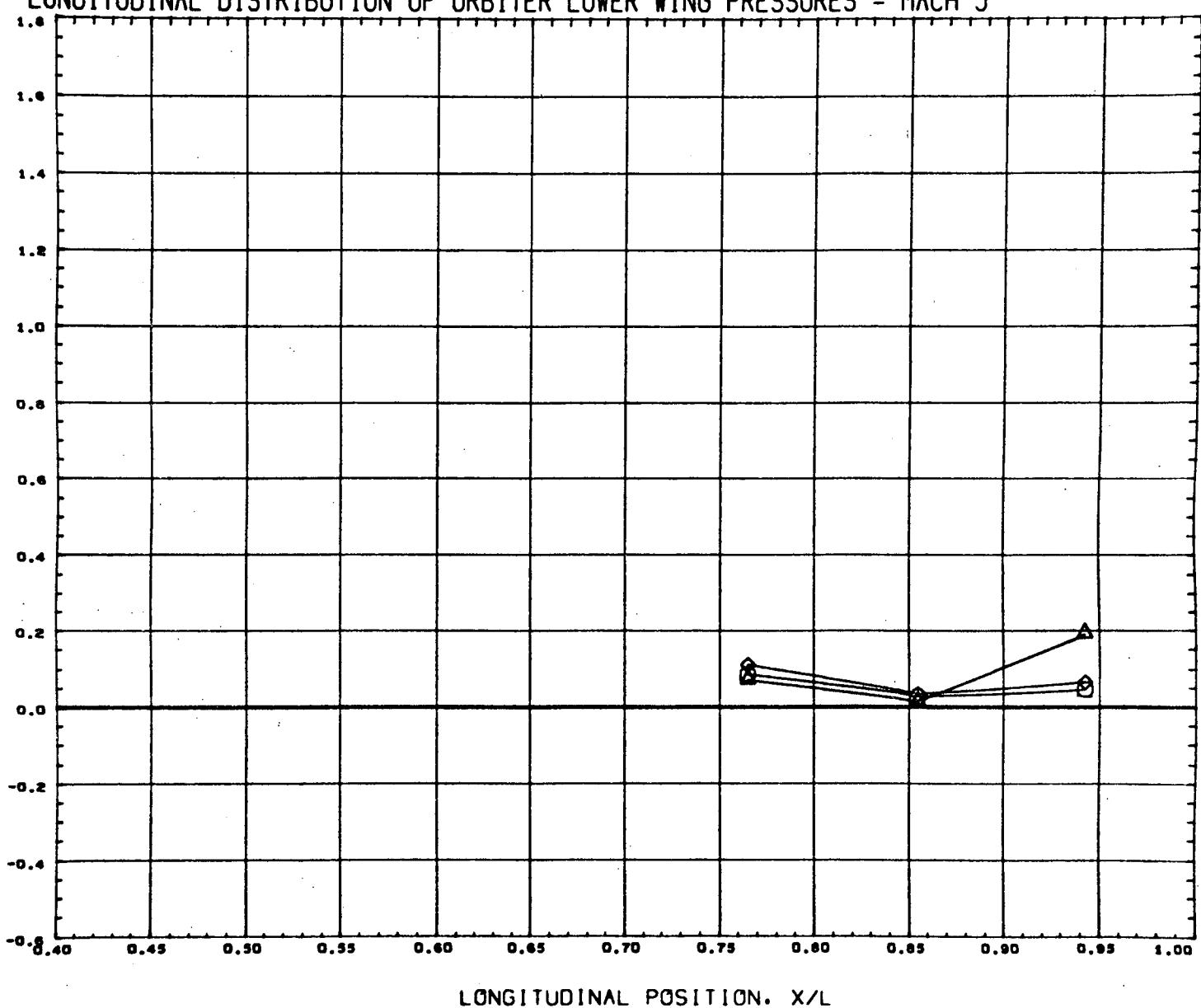
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8542•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



SYMBOL DELTAX Y/B DELTAZ

 - 0.144 0.568 0.190

 △ 0.103 0.103 0.226

PARAMETRIC VALUES

	ALPHAB	MACH	ORBPOW
-	4.896	4.870	
ALPHAI	5.000		100.000
BSTPOW	50.000		

REFERENCE FILE

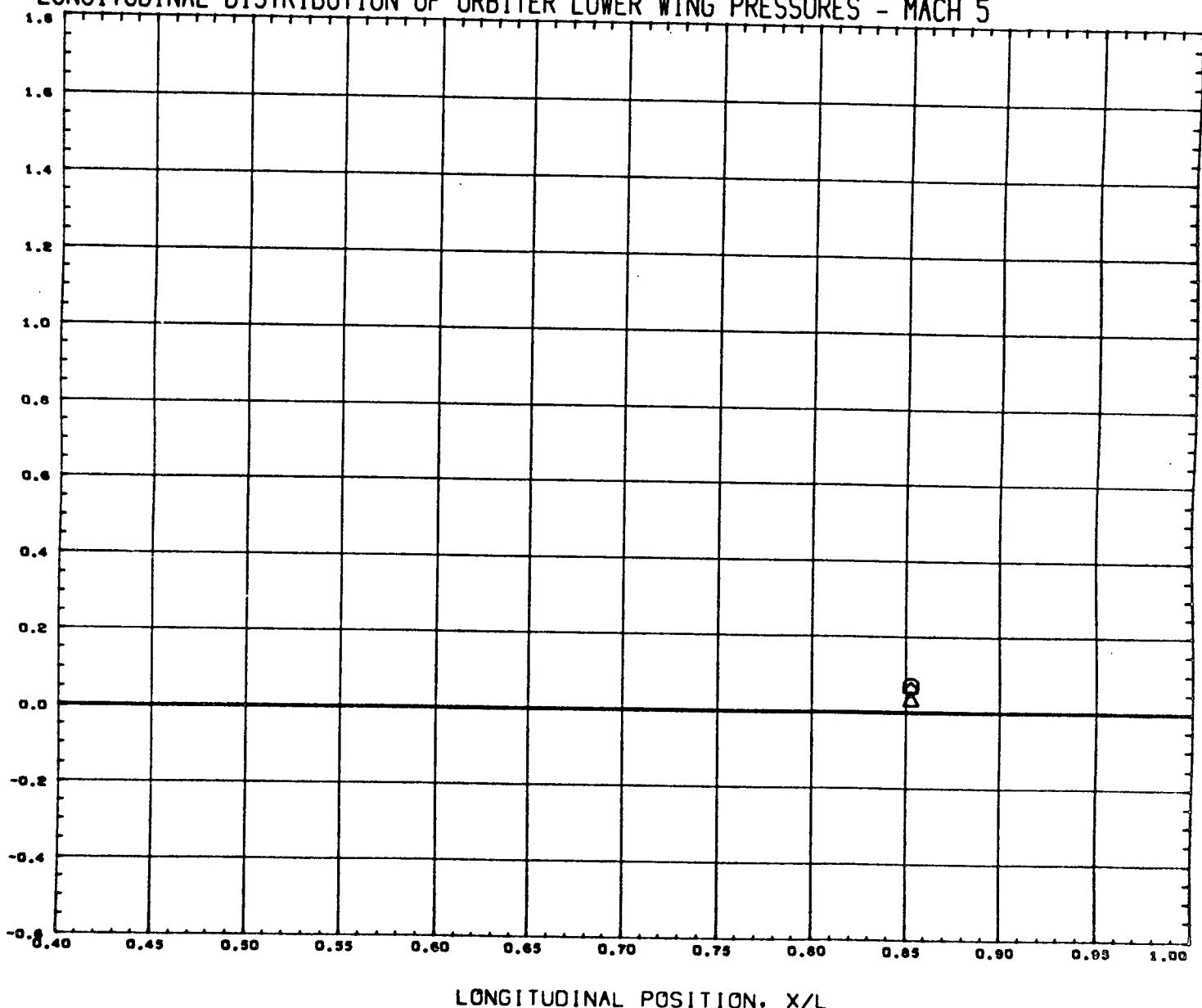
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8542•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION, X/L

SYMBOL	DELTAX	Y/L	DELTAZ
○	- 0.144	0.736	0.150
△	0.103		
◊	0.226		

PARAMETRIC VALUES			
ALPHAB	- 4.096	MACH	4.970
ALPHAI	3.000	ORBPOW	100.000
BSTPOW	50.000		

REFERENCE FILE

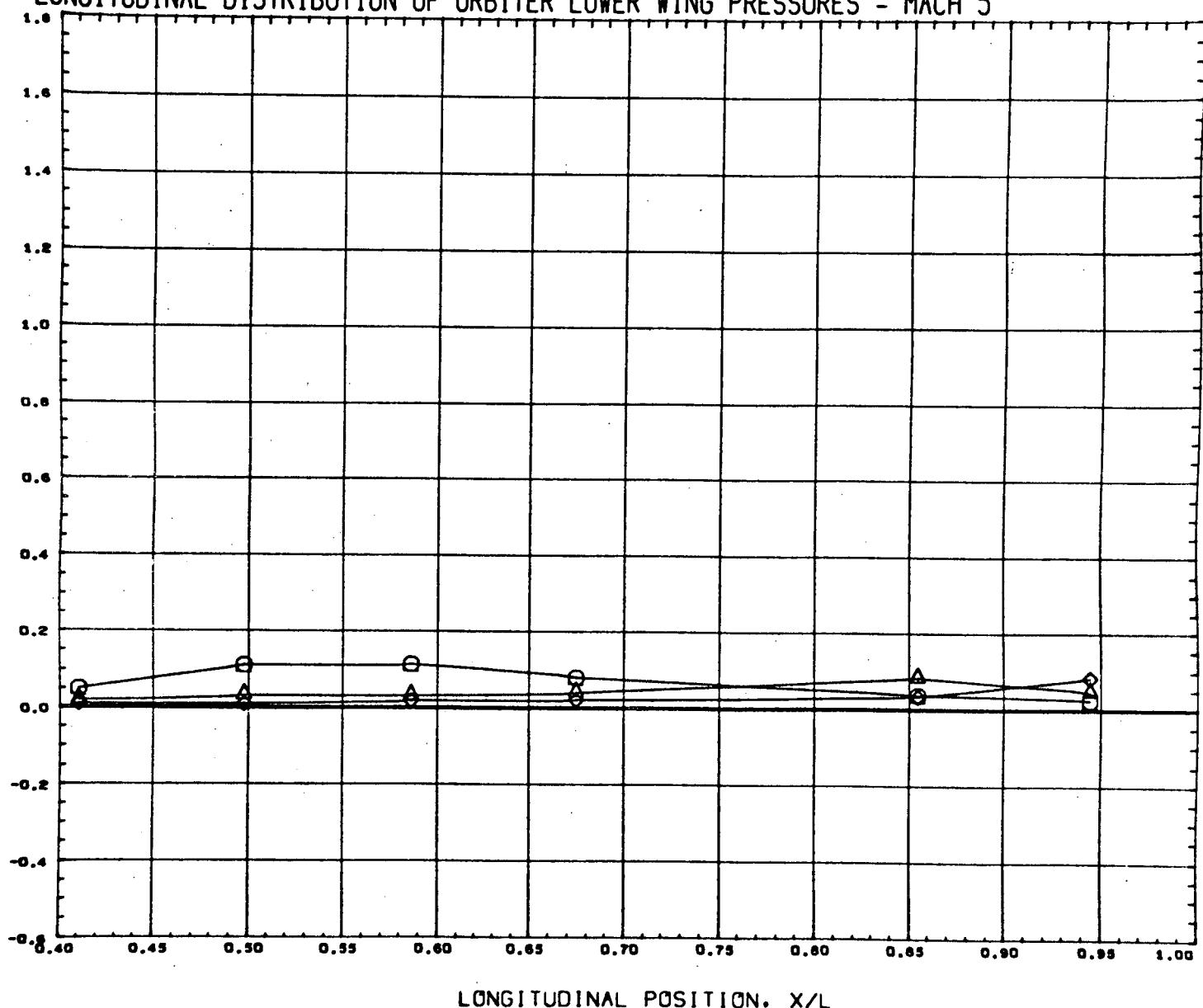
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8542•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION. X/L

SYMBOL	DELTA X	Y/E	DELTA Z
()	- 0.144	0.230	0.227
◊	0.103		
△	0.226		

PARAMETRIC VALUES			
ALPHAB	- 4.896	MACH	4.970
ALPHAI	5.000	ORBPOW	100.000
BSTPOW	50.000		

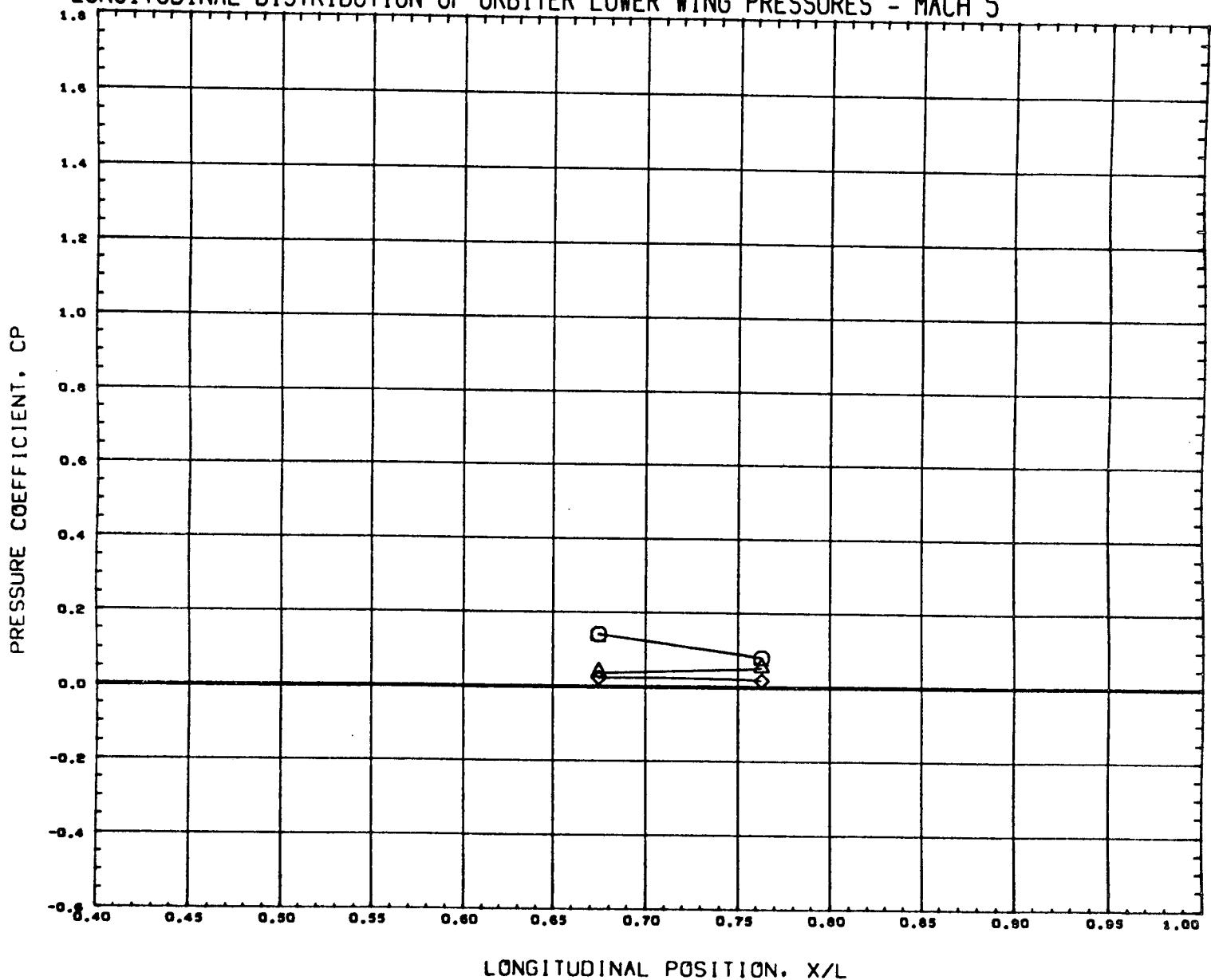
REFERENCE FILE

AEDC VAI163 MDAC ORBITER (LOWER WING)

•HT8542•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



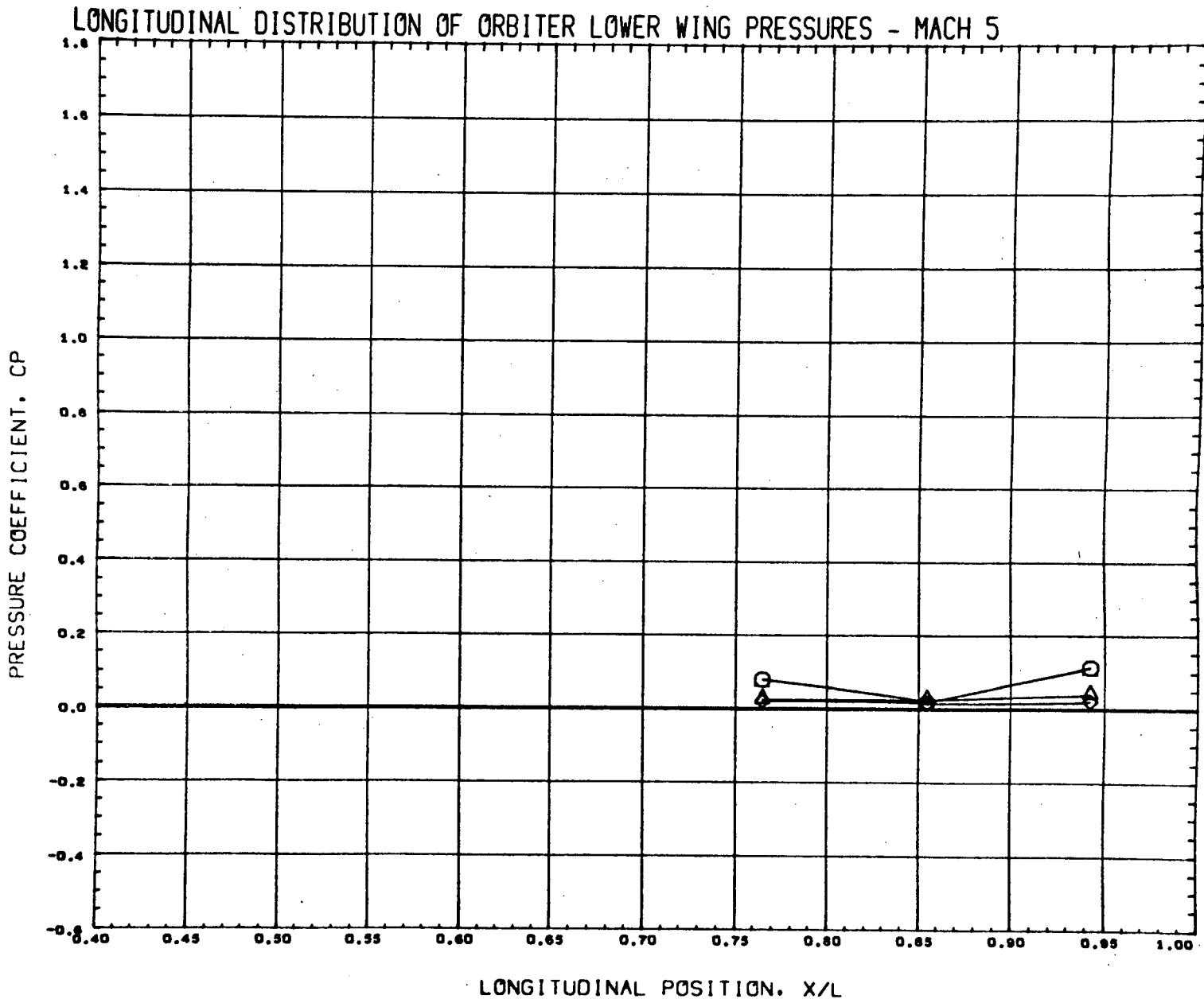
PARAMETRIC VALUES				
ALPHAB	-	4.896	MACH	4.970
ALPHAI		5.000	ORBPOW	100.000
BSTPOW		50.000		

REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8542•

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SYMBOL DELTAX T/B DELTAZ

△ - 0.144 0.568 0.227

△ 0.103 -

○ 0.226 -

LONGITUDINAL POSITION. X/L

PARAMETRIC VALUES

ALPHAB	- 4.696	MACH	4.970
ALPHAI	5.000	ORBPOW	100.000
BSTPOW	50.000		

REFERENCE FILE

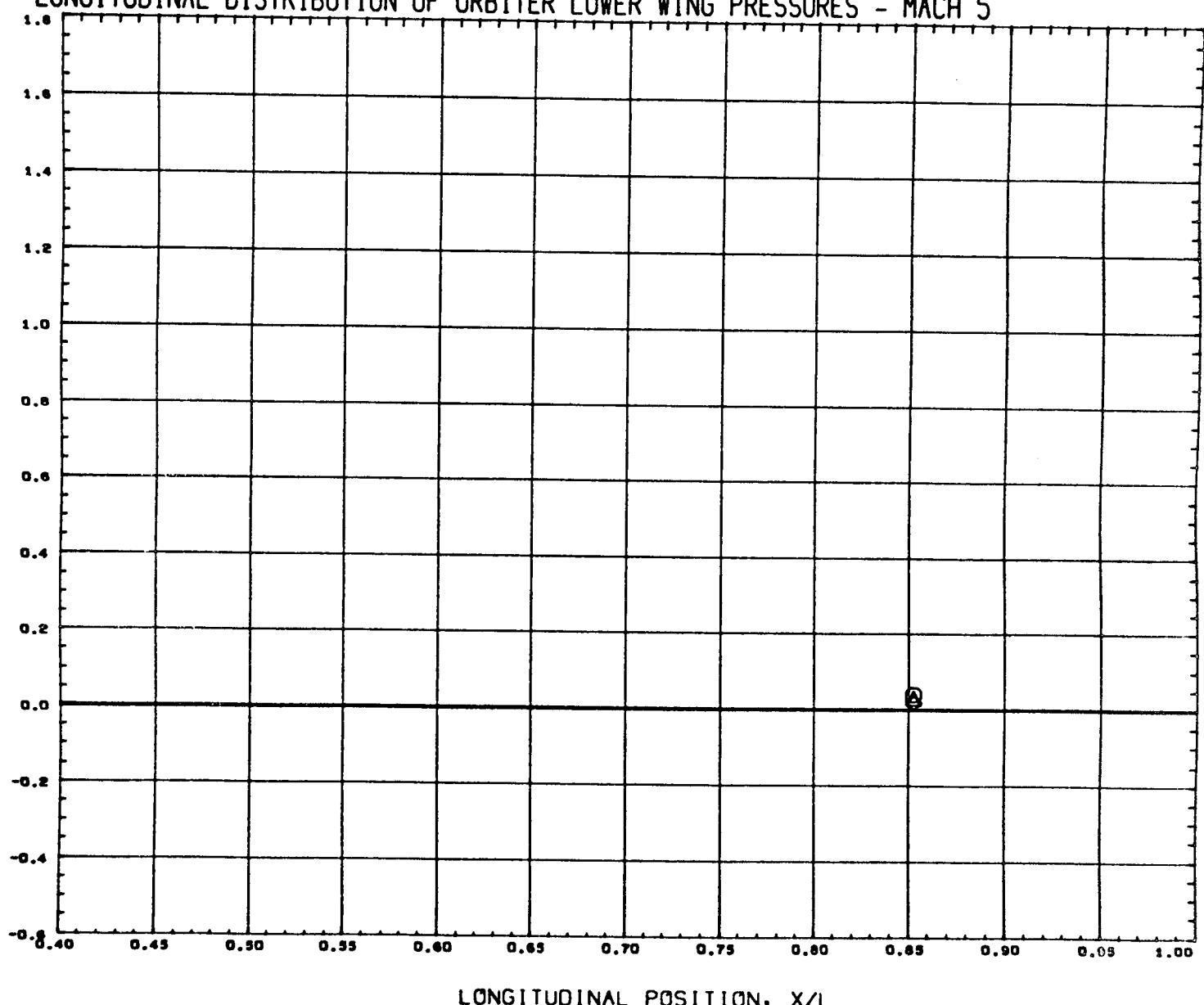
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8542•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



LONGITUDINAL POSITION. X/L

SYMBOL	DELTA X	Y/B	DELTA Z
-	0.144	0.736	0.227
Δ	0.103		
◊	0.226		

PARAMETRIC VALUES			
ALPHAB	= 4.896	MACH	4.970
ALPHAI	5.000	ORBPOW	100.000
BSTPOW	50.000		

REFERENCE FILE

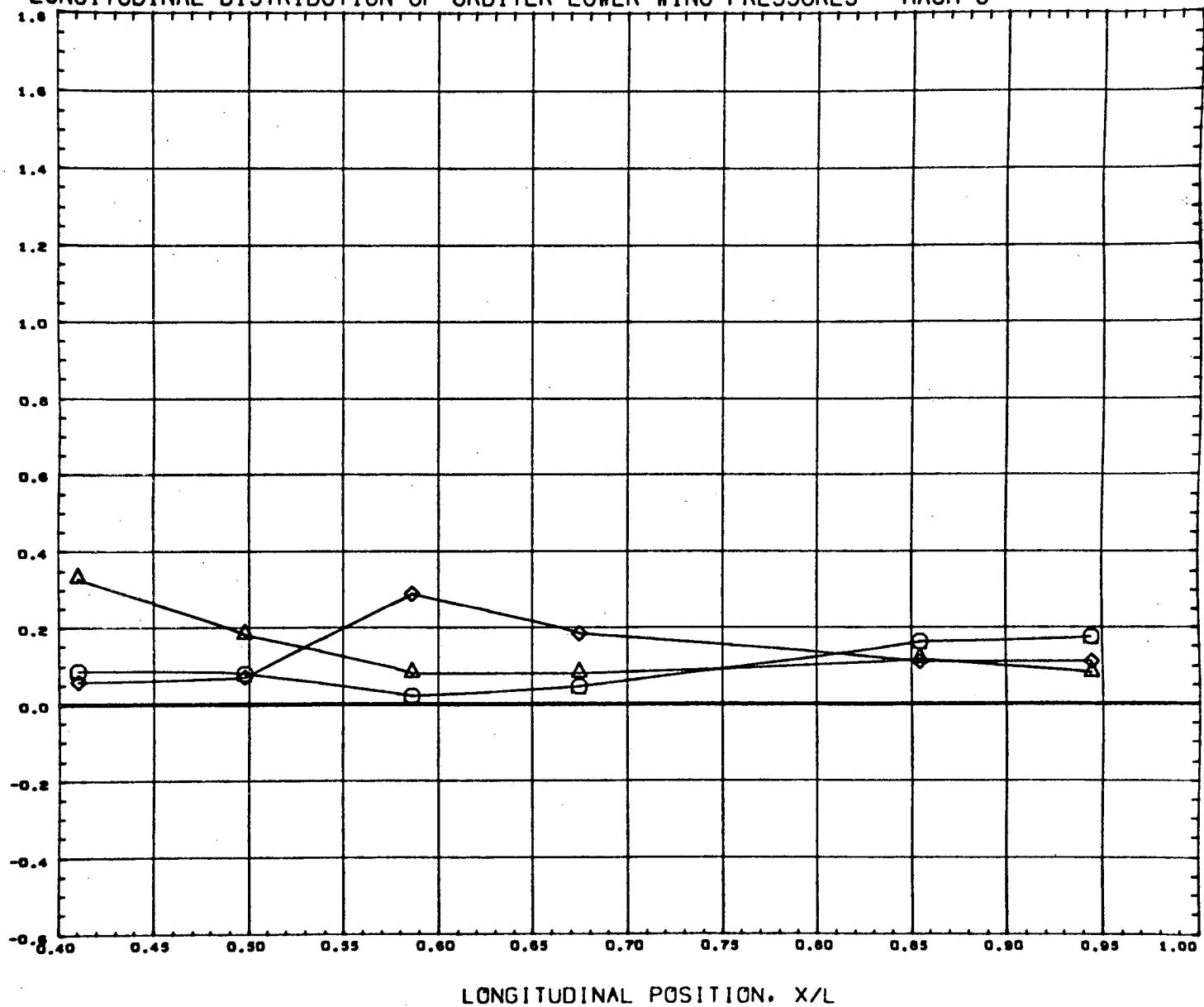
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8542•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



LONGITUDINAL POSITION. X/L

SYMBOL	DELTA X	Y/B	DELTA Z
Δ	-0.144	0.230	0.150
\square	0.103		
\diamond	0.226		

PARAMETRIC VALUES		
ALPHAB	0.055	MACH 4.970
ALPHAI	5.000	ORBPOW 100.000
BSTPOW	50.000	

REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

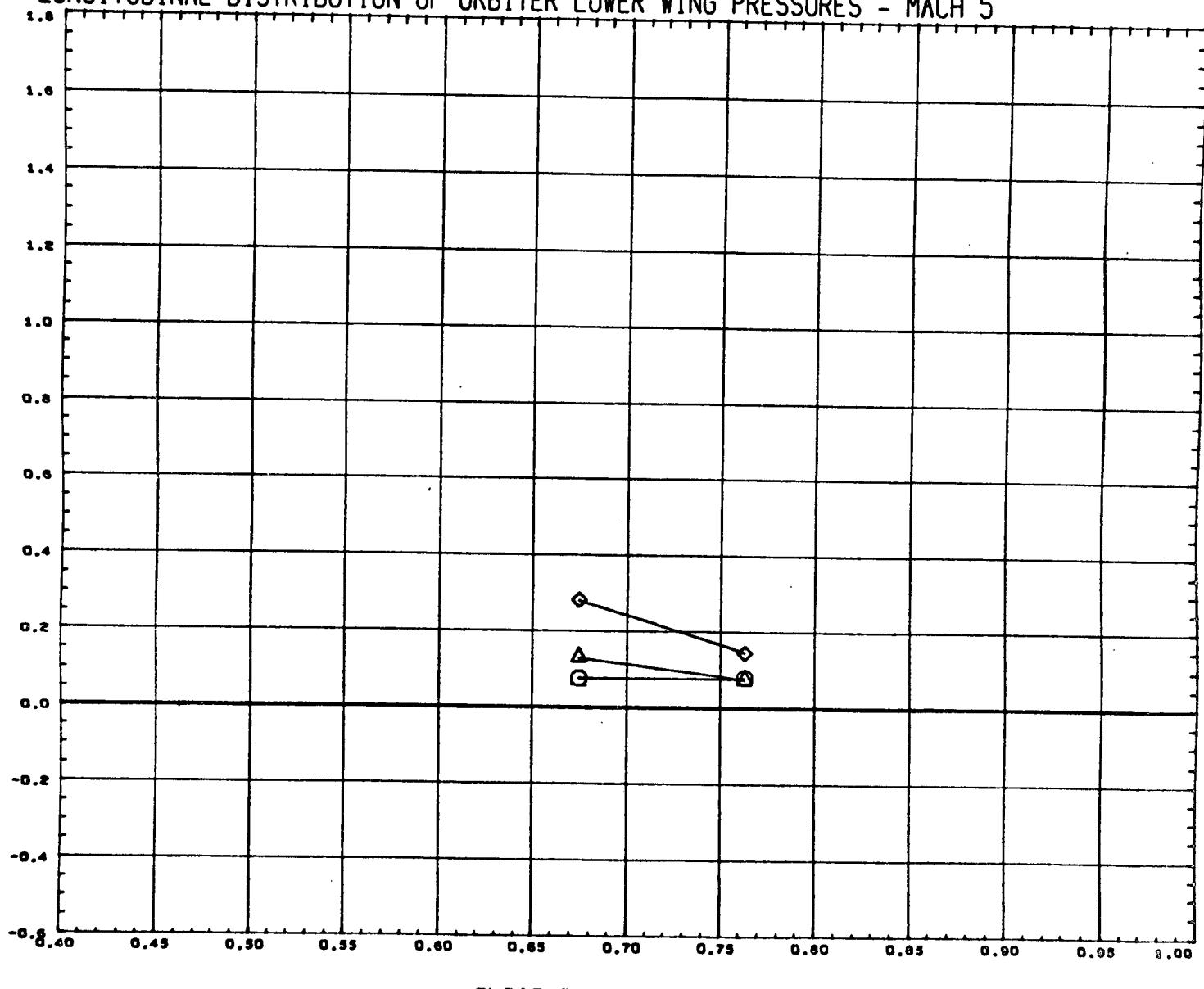
•HT8543•

PAGE 749

C.6

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION, X/L

SYMBOL	DELTAX	T/B	DELTAZ
C	-0.144	0.399	0.150
A	0.103	-	-
D	0.226	-	-

PARAMETRIC VALUES			
ALPHAB	0.055	MACH	4.970
ALPHAI	5.000	ORBPOW	100.000
BSTPOW	50.000		

REFERENCE FILE

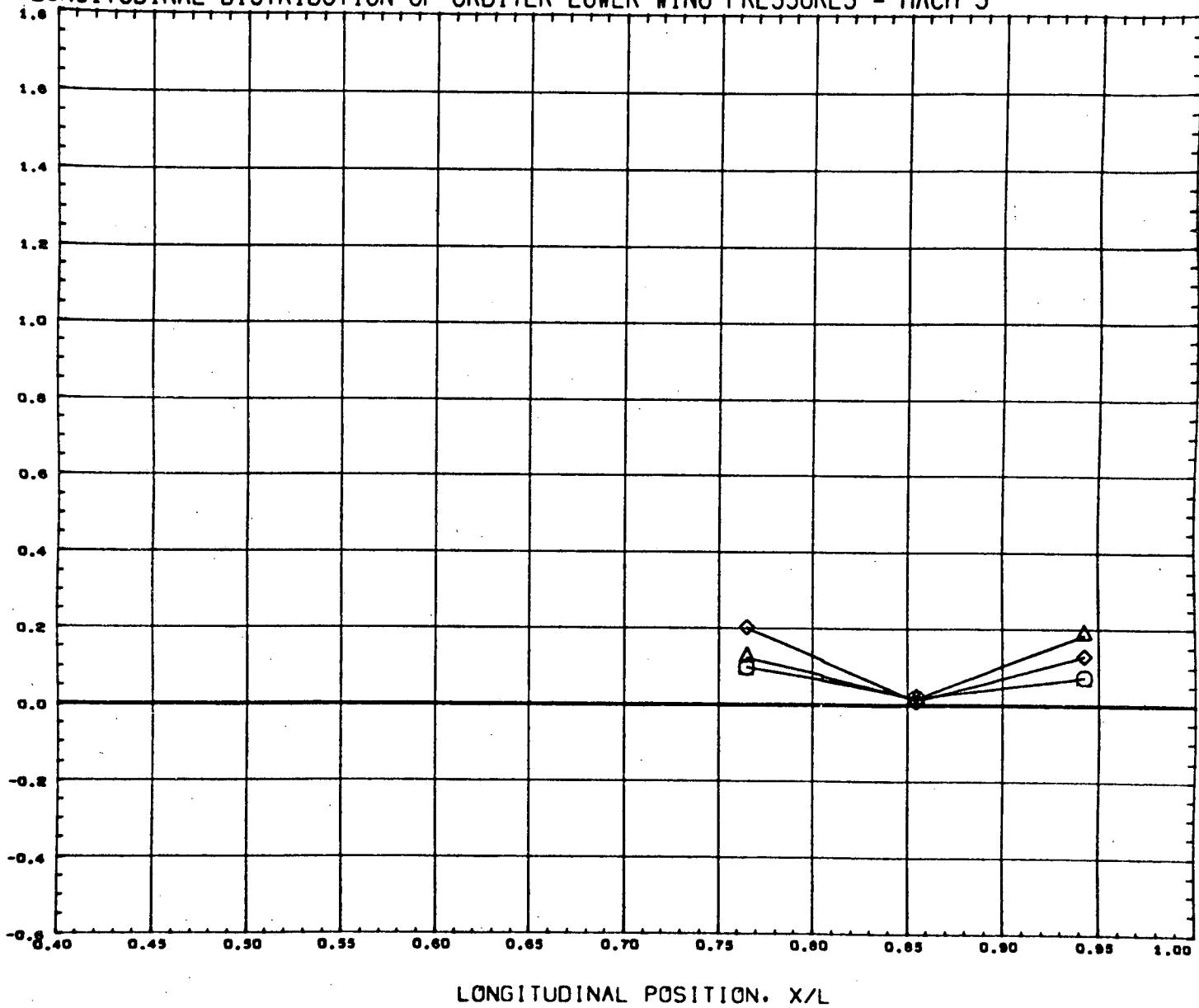
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8543•

PAGE 750

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL DELTAX Y/B DELTAZ

○ - 0.144 0.565 0.150

△ 0.103

□ 0.226

PARAMETRIC VALUES

ALPHAB	0.055	MACH	4.970
ALPHAI	5.000	ORBPOW	100.000
BSTPOW	50.000		

REFERENCE FILE

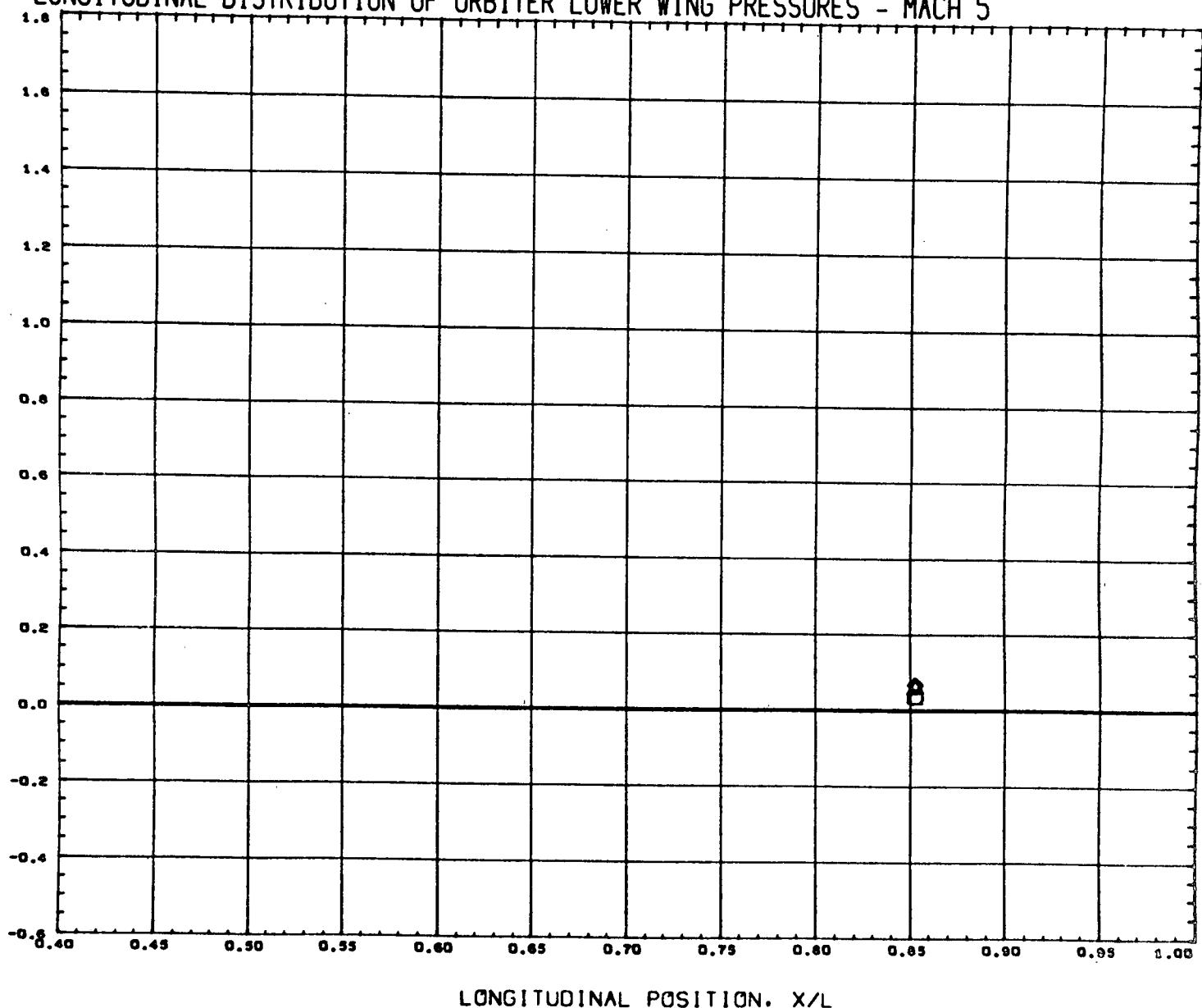
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8543•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



LONGITUDINAL POSITION. X/L

SYMBOL	DELTA X	Y/B	DELTA Z
-	0.144	0.736	0.190
Δ	0.103		
◊	0.226		

PARAMETRIC VALUES			
ALPHAB	0.055	MACH	4.970
ALPHAT	5.000	ORBPOW	100.000
BSTPOW	50.000		

REFERENCE FILE

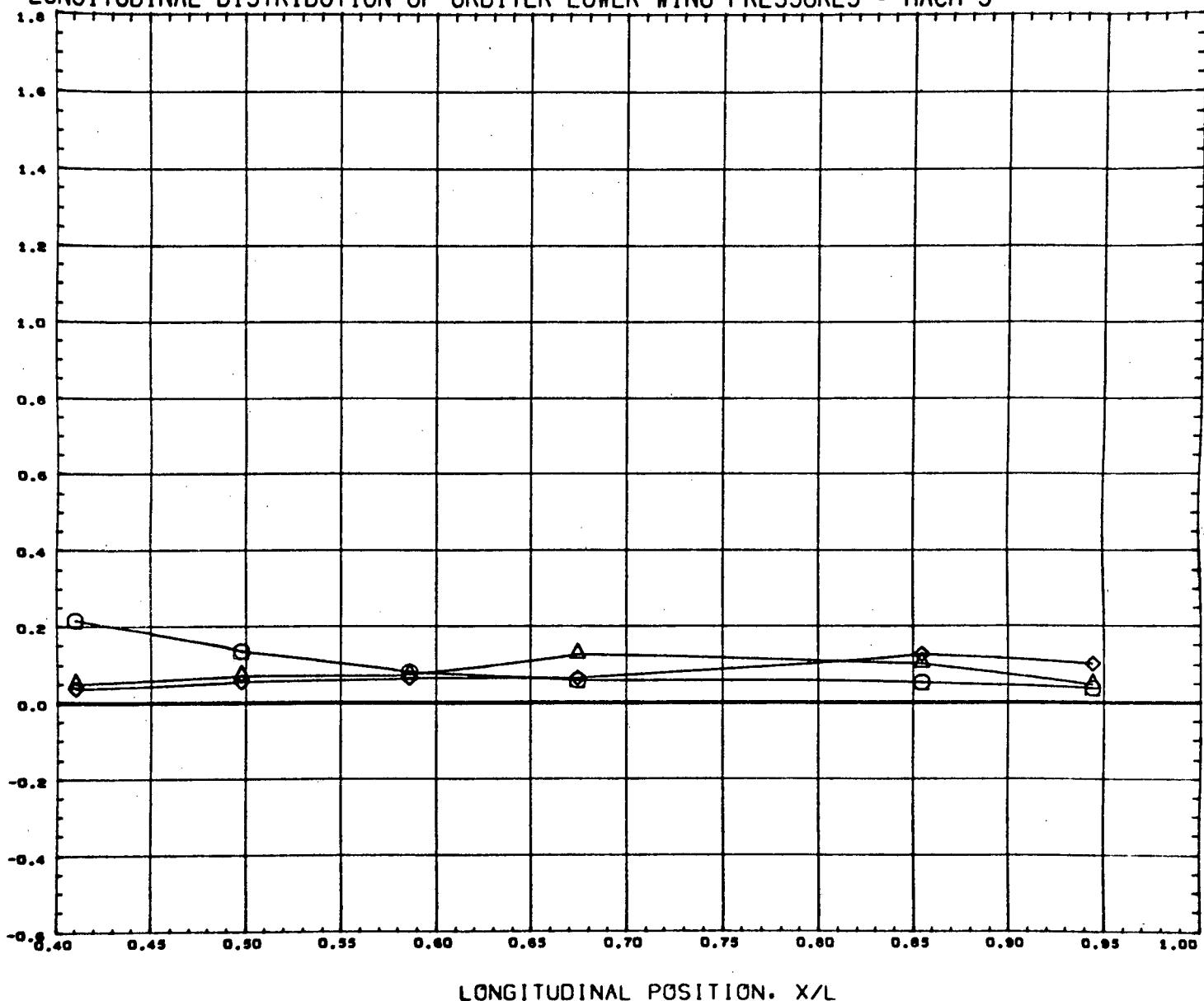
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8543•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



LONGITUDINAL POSITION. X/L

SYMBOL	DELTAX	T/8	DELTAZ
-	0.144	0.230	0.227
△	0.103		
◊	0.226		

PARAMETRIC VALUES		
ALPHAB	0.055	MACH 4.970
ALPHAI	5.000	ORBPOW 100.000
BSTPOW	50.000	

REFERENCE FILE

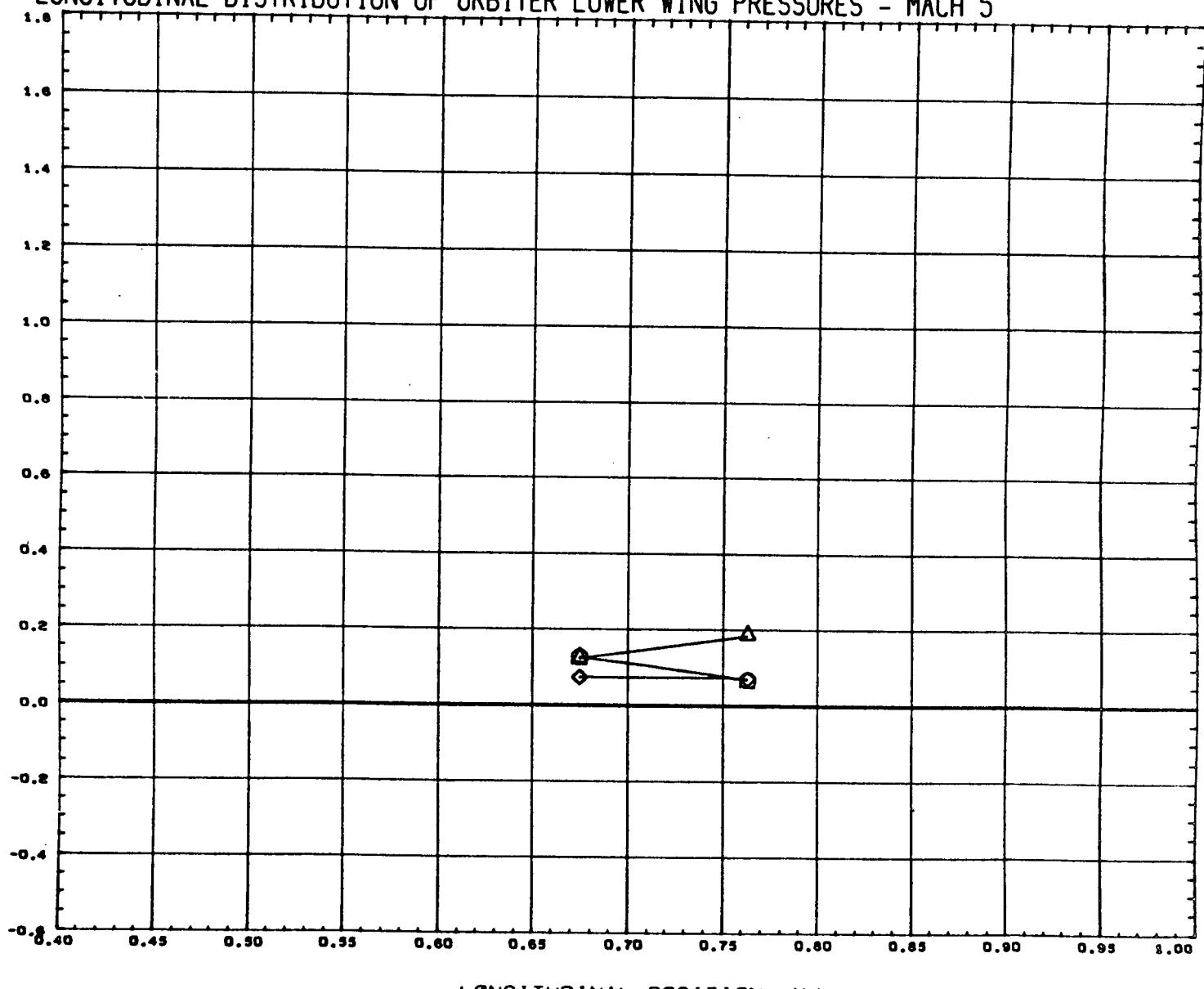
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8543•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/Z	DELTA Z
-	0.144	0.399	0.227
△	0.103		
◊	0.226		

PARAMETRIC VALUES		
ALPHAB	0.055	MACH 4.970
ALPHAI	5.000	ORBPOW 100,000
BSTPOW	50.000	

REFERENCE FILE

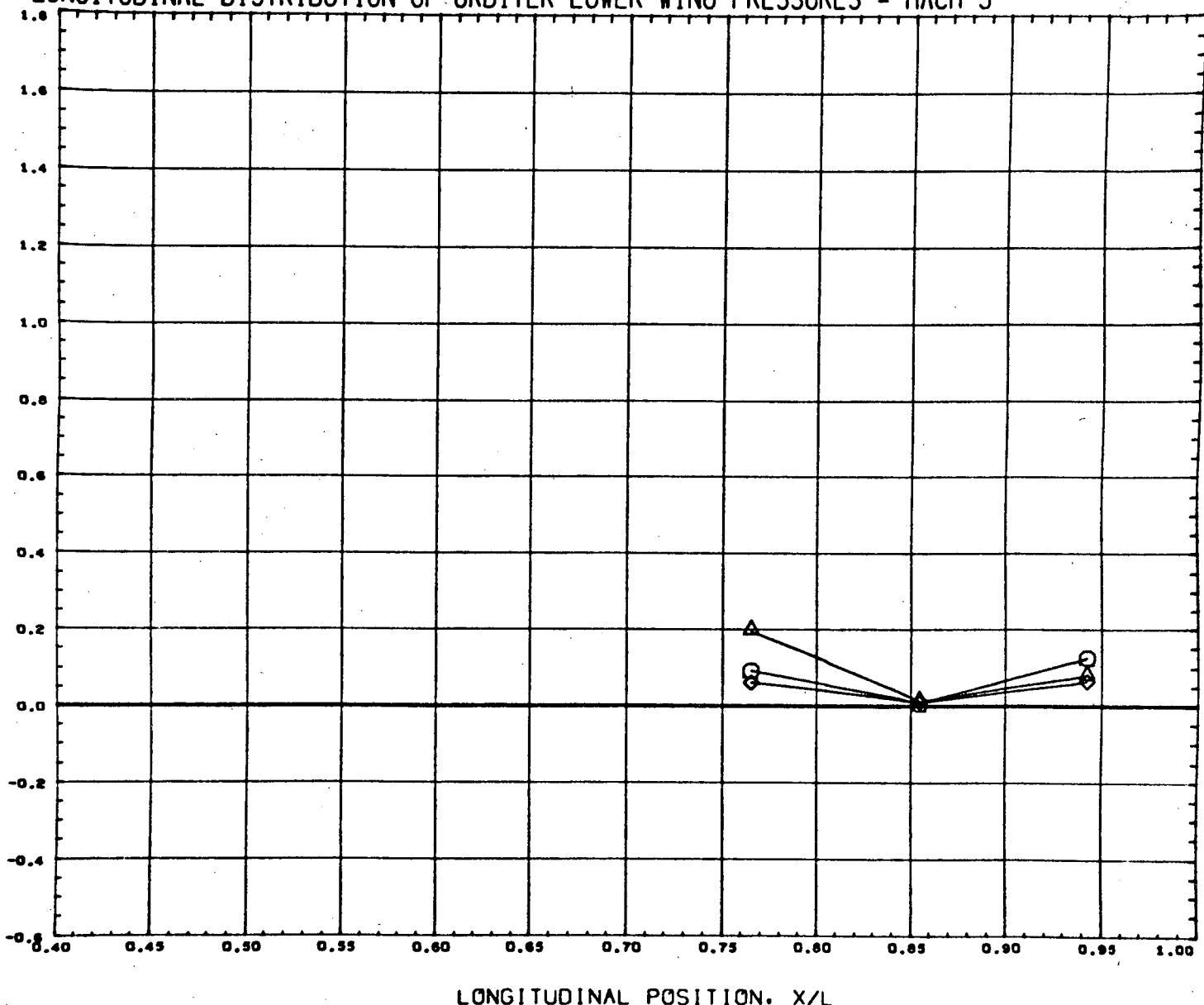
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8543•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



SYMBOL DELTAX T/B DELTAZ

- 0.144 0.568 0.227

△ 0.103 0.568 0.227

◊ 0.226 0.568 0.227

PARAMETRIC VALUES

ALPHAB	0.095	MACH	4.970
ALPHAI	5.000	ORBPOW	100.000
BSTPOW	50.000		

REFERENCE FILE

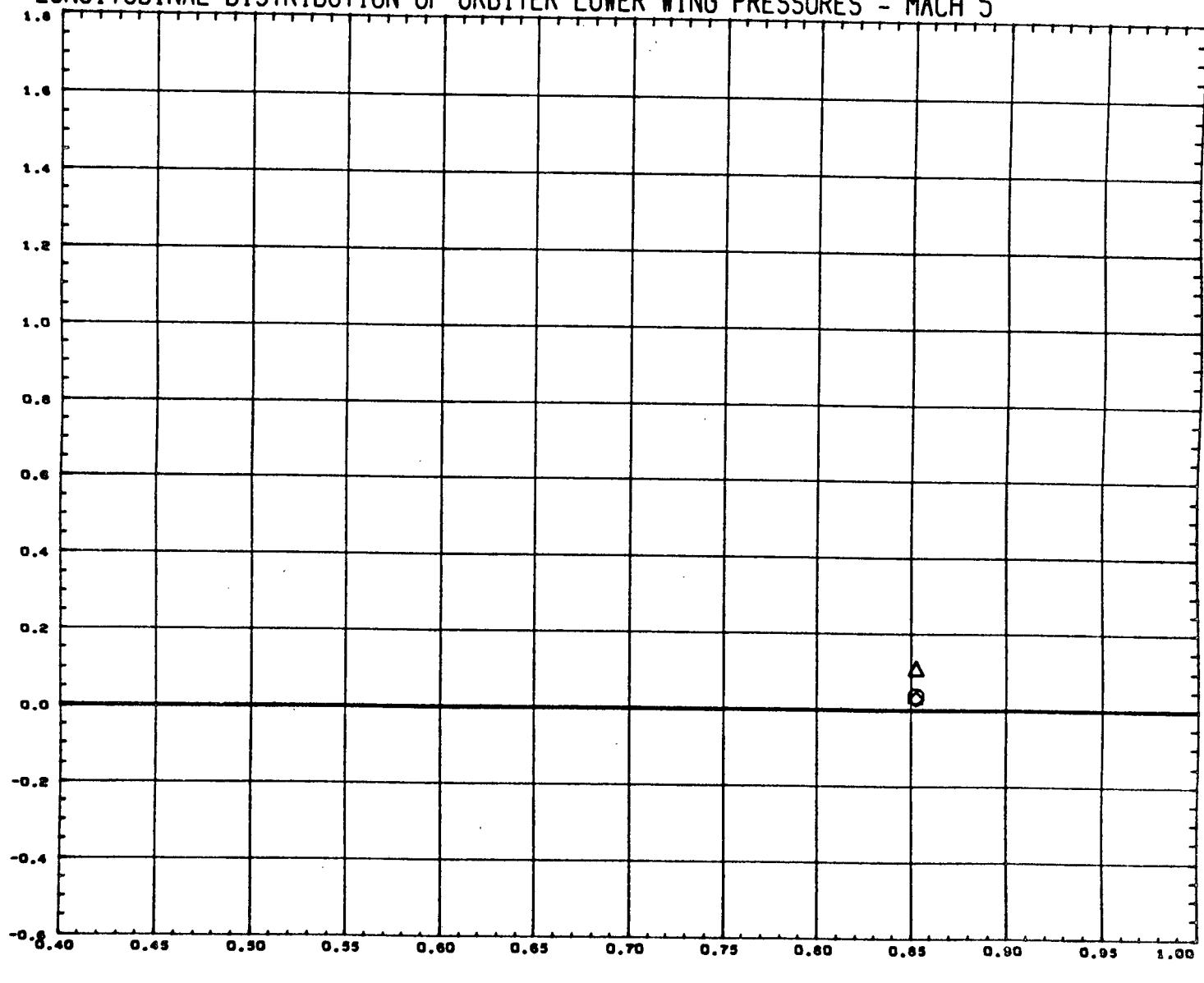
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8543•

PAGE 755

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



LONGITUDINAL POSITION. X/L

SYMBOL	DELTA X	Y/B	DELTA Z
C	-0.144	0.739	0.227
△	0.103		
◊	0.226		

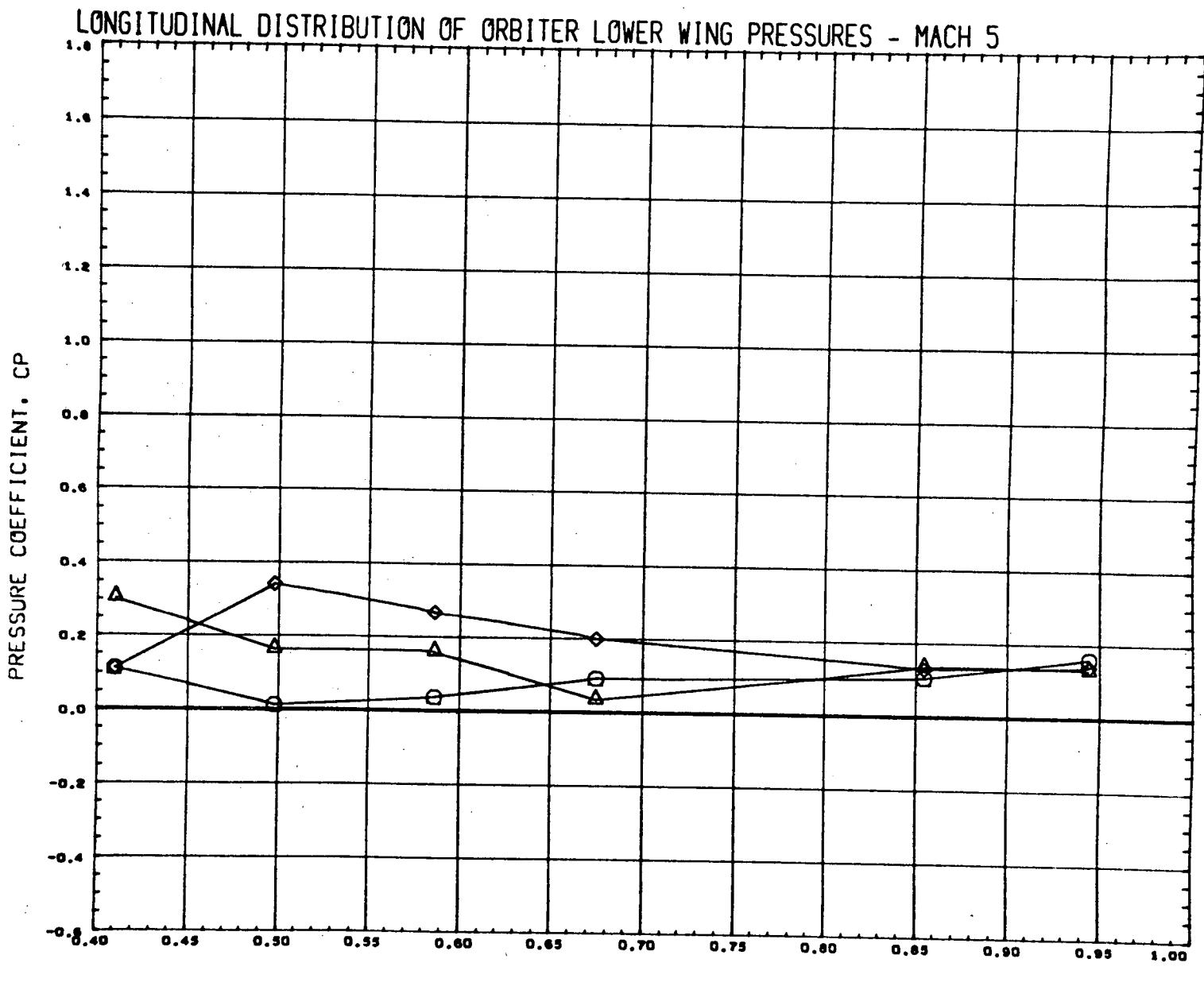
PARAMETRIC VALUES		
ALPHAB	0.055	MACH 4.970
ALPHAI	5.000	ORBPOW 100.000
BSTPOW	50.000	

REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8543•

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PARAMETRIC VALUES

	ALPHAB	MACH
ALPHAI	5.051	4.970
BSTPOW	5.000	ORBPOW 100.000
	50.000	

REFERENCE FILE

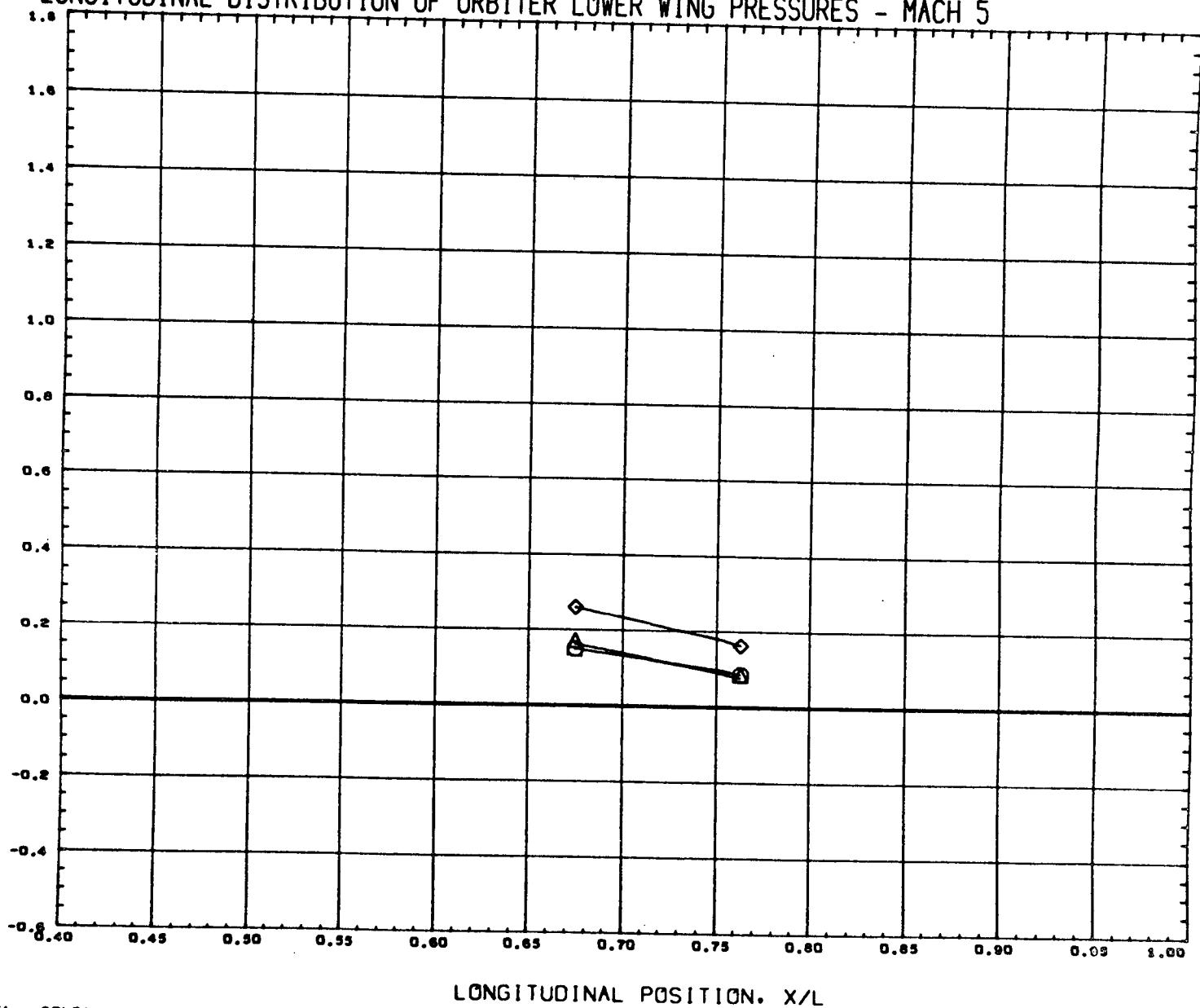
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8544•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



SYMBOL DELTAX Y/B DELTAZ

△ - 0.144 0.399 0.150

△ 0.193

◊ 0.226

LONGITUDINAL POSITION. X/L

PARAMETRIC VALUES			
ALPHAB	9.051	MACH	4.970
ALPHAT	5.000	ORBPW	100.000
BSTPOW	50.000		

REFERENCE FILE

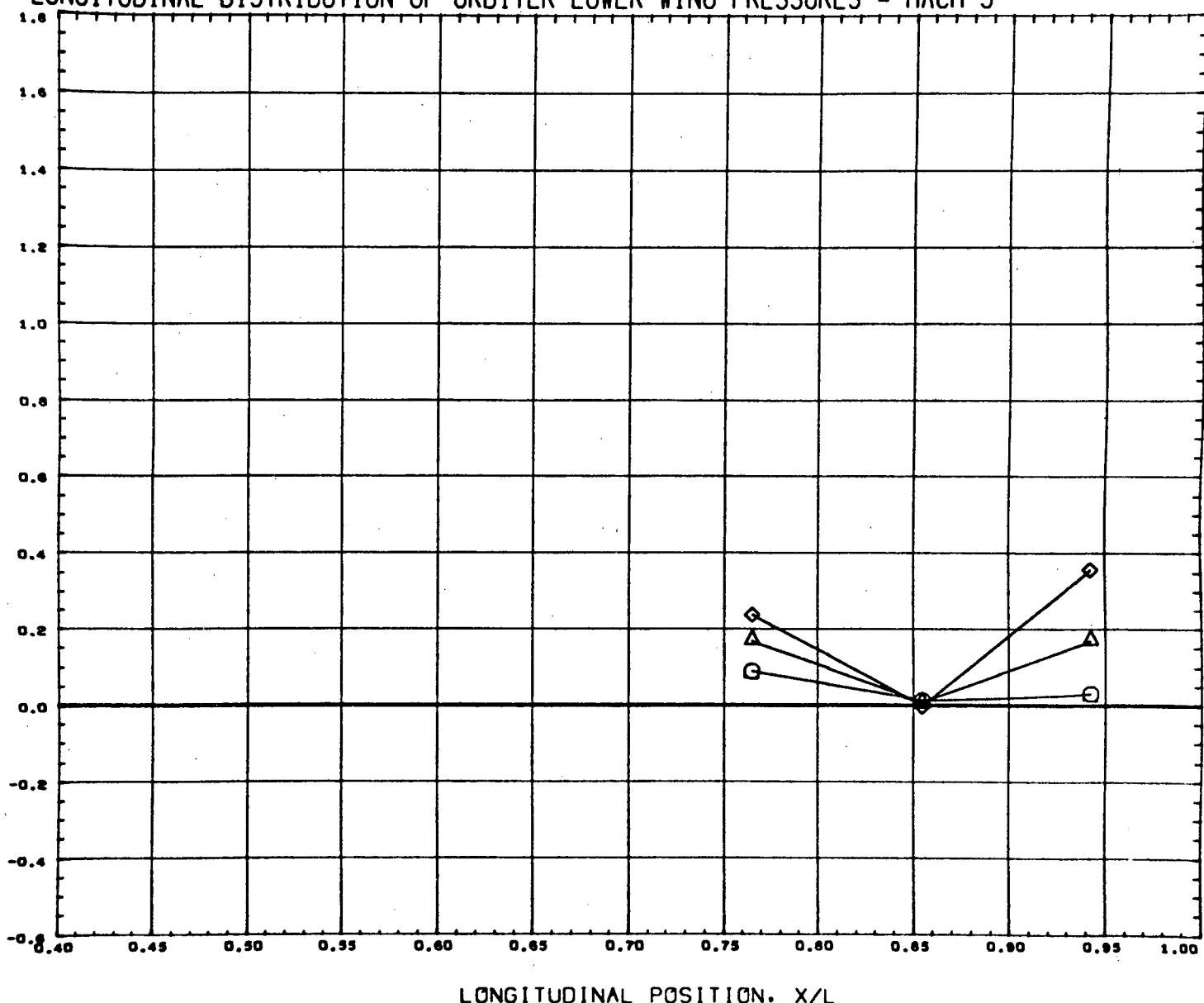
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8544•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



SYMBOL	DELTA X	Y/B	DELTA Z
○	- 0.144	0.366	0.150
△	0.103		
◊	0.226		

PARAMETRIC VALUES			
ALPHAB	5.051	MACH	4.970
ALPHAT	5.000	ORBPOW	100.000
BSTPOW	50.000		

REFERENCE FILE

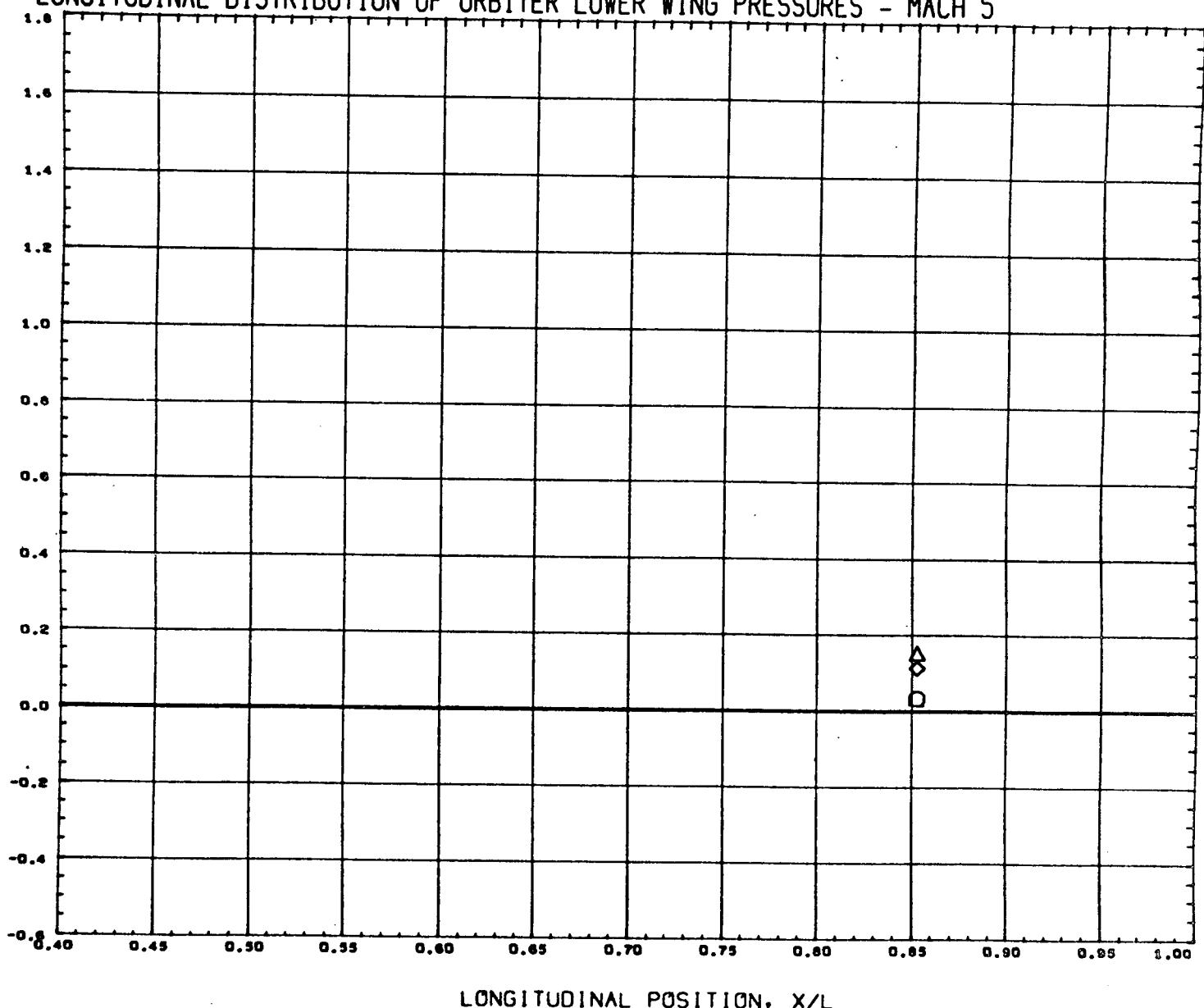
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8544•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	T/B	DELTA Z
Δ	-0.144	0.738	0.150
\diamond	0.103		
	0.226		

PARAMETRIC VALUES		
ALPHAB	5.031	MACH 4.970
ALPHAI	5.000	ORBPOW 100.000
BSTPOW	50.000	

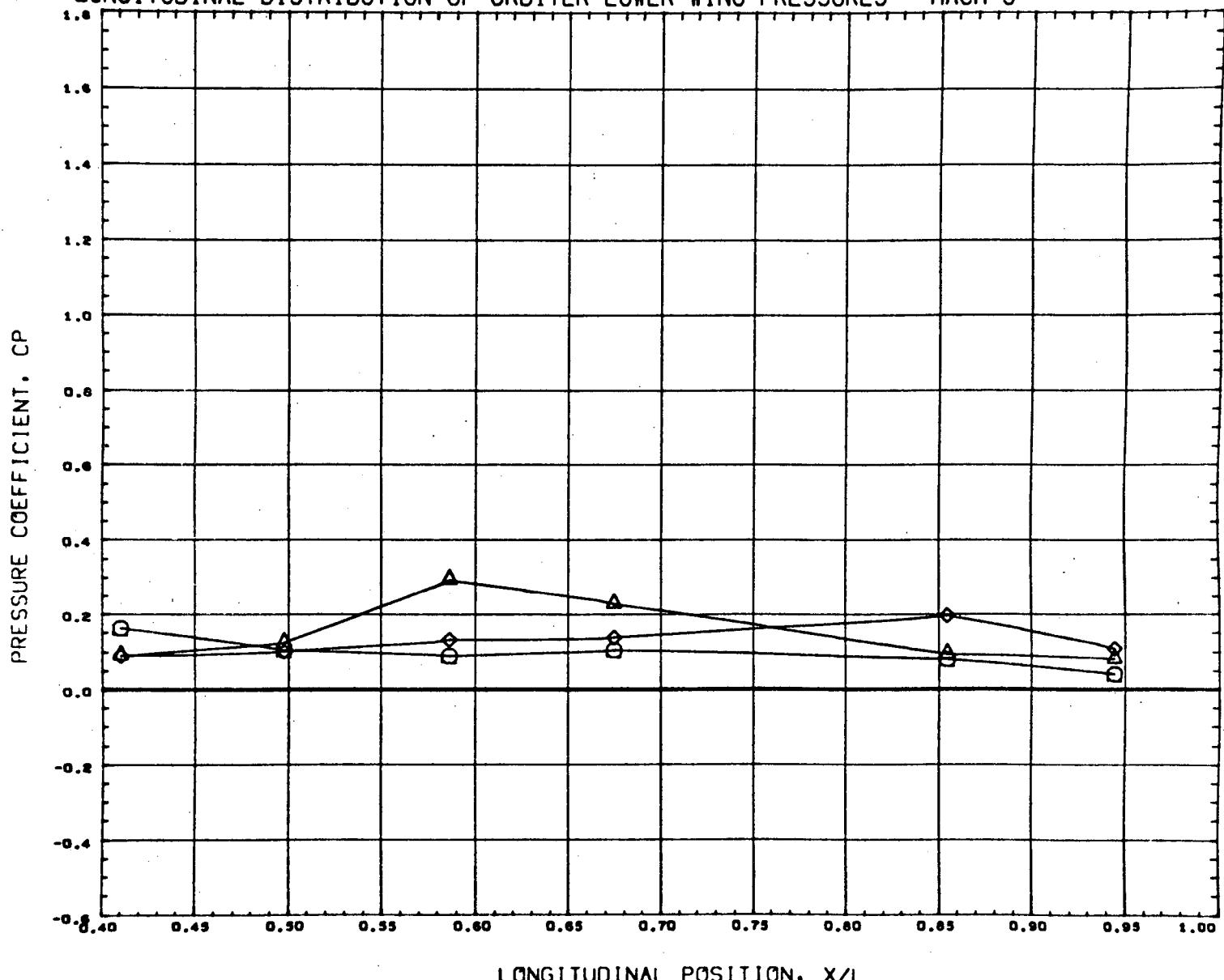
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AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8544•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



PARAMETRIC VALUES

ALPHAB	5.051	MACH	4.970
ALPHAT	5.000	ORBPW	100.000
BSTPWR	90.000		

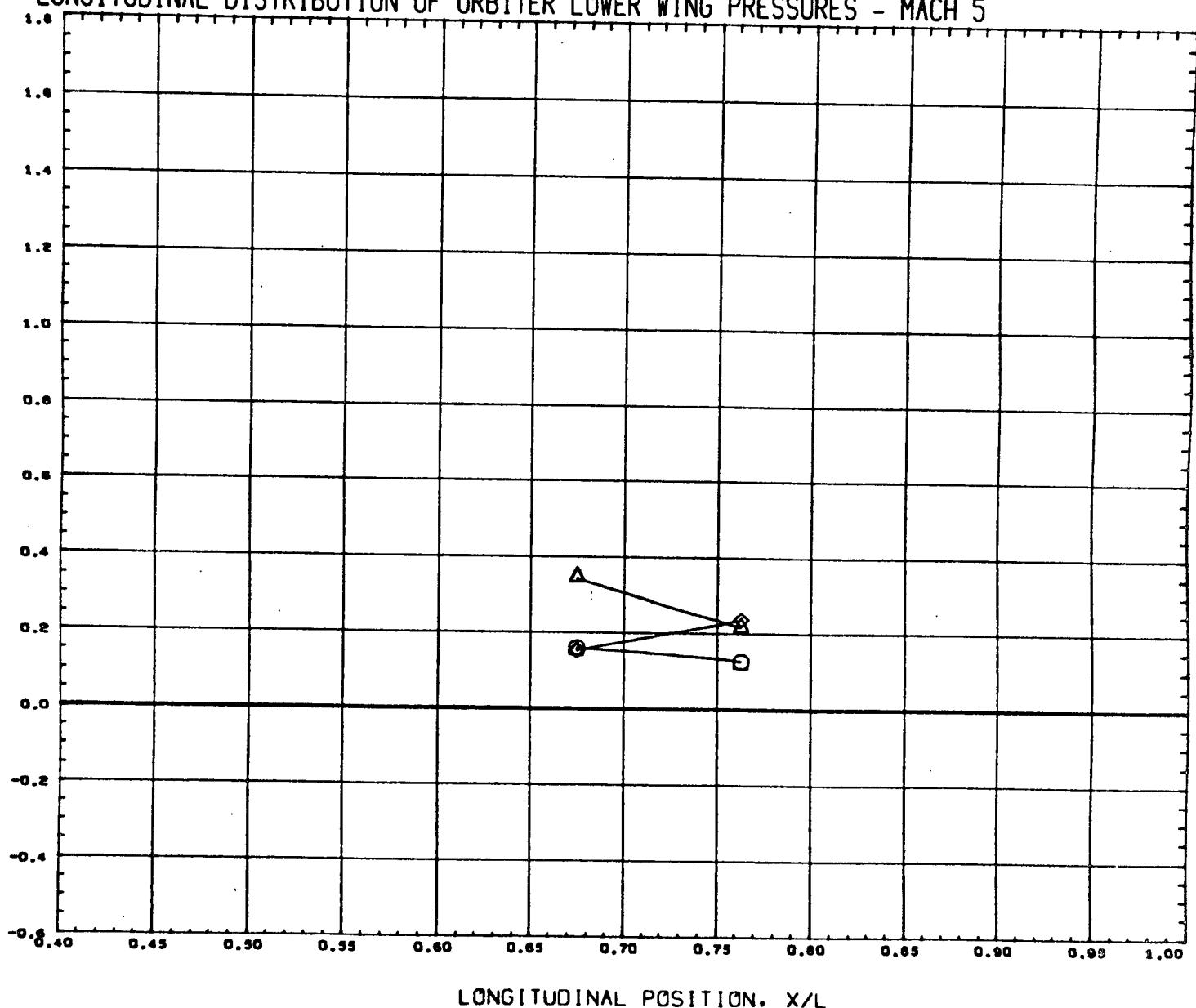
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AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8544•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION, X/L

SYMOL	DELTAX	Y/B	DELTAZ
-	0.144	0.399	0.227
▲	0.103	-	-
◇	0.226	-	-

PARAMETRIC VALUES			
ALPHAB	5.051	MACH	4.970
ALPHAI	5.000	ORBPOW	100.000
BSTPOW	50.000		

REFERENCE FILE

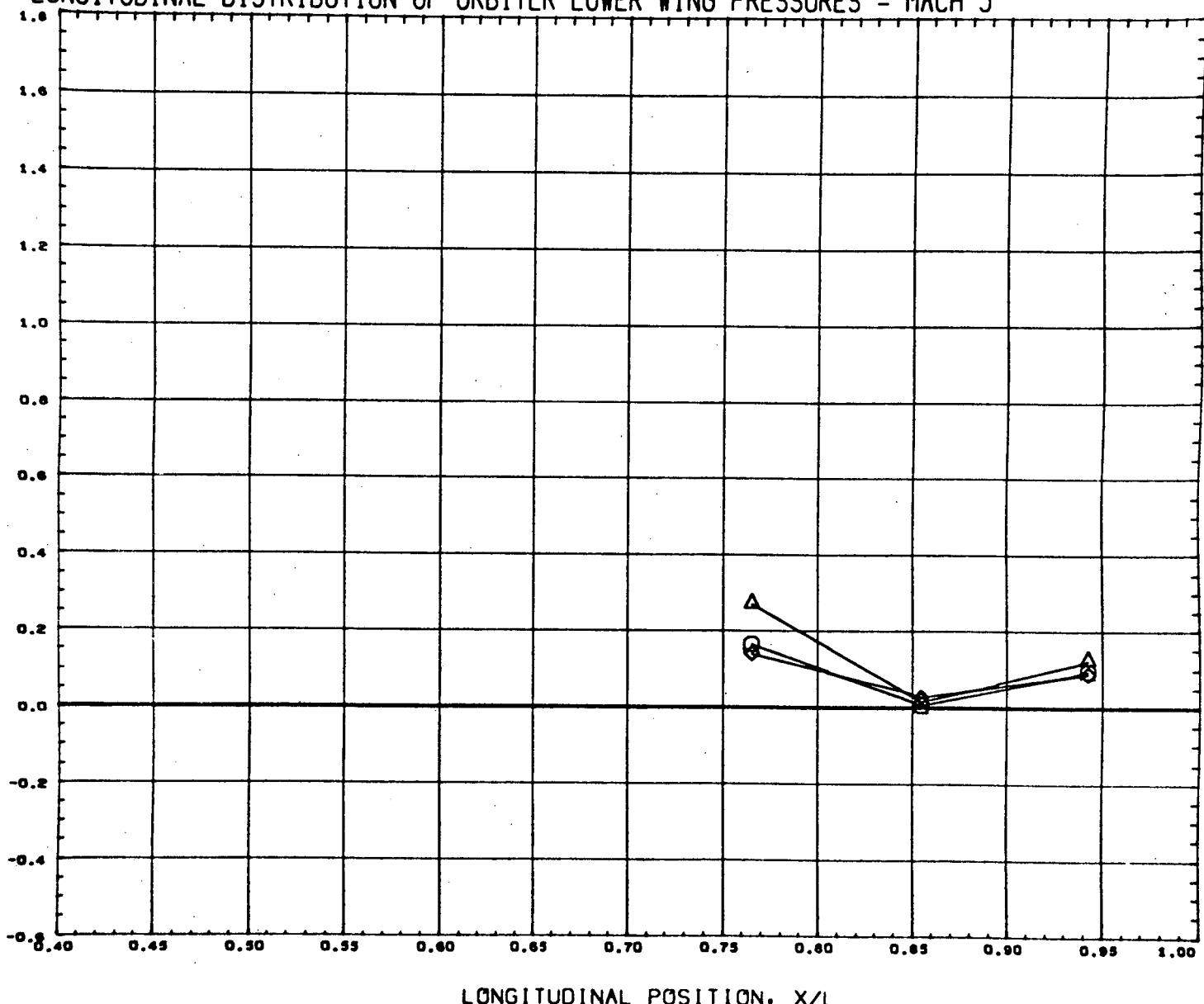
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8544•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



LONGITUDINAL POSITION. X/L

SYMBOL	DELTA X	Y/B	DELTA Z
-	0.144	0.369	0.227
△	0.103		
◊	0.226		

PARAMETRIC VALUES			
ALPHAB	5.051	MACH	4.970
ALPHAI	5.000	ORBPOW	100.000
BSTPOW	50.000		

REFERENCE FILE

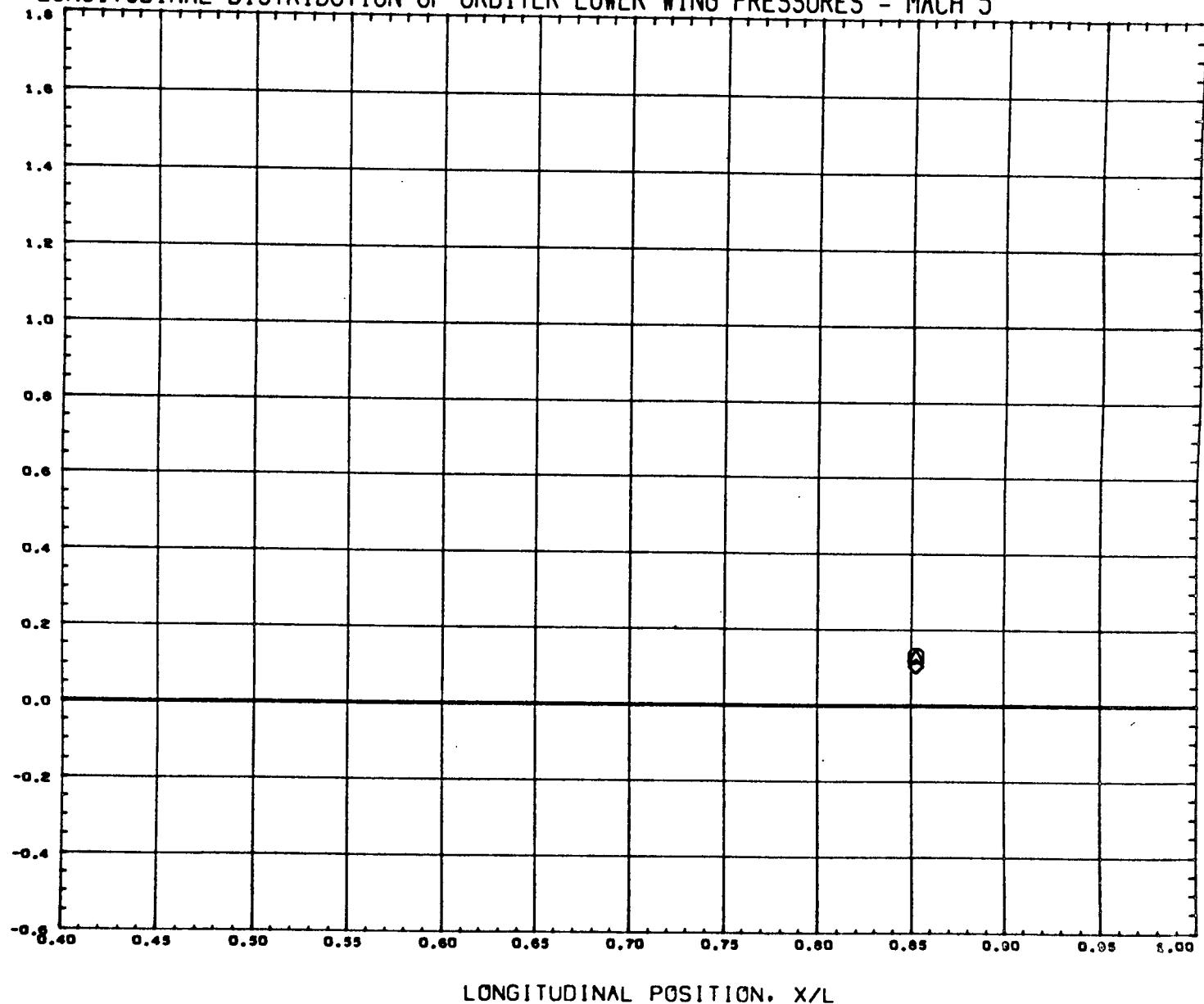
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8544•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION. X/L

SYMBOL	DELTA X	T/B	DELTA Z
Δ	- 0.144	0.739	0.227
	0.103		
\diamond			0.226

PARAMETRIC VALUES			
ALPHAB	5.051	MACH	4.970
ALPHAI	5.000	ORBPOW	100.000
BSTPOW	50.000		

REFERENCE FILE

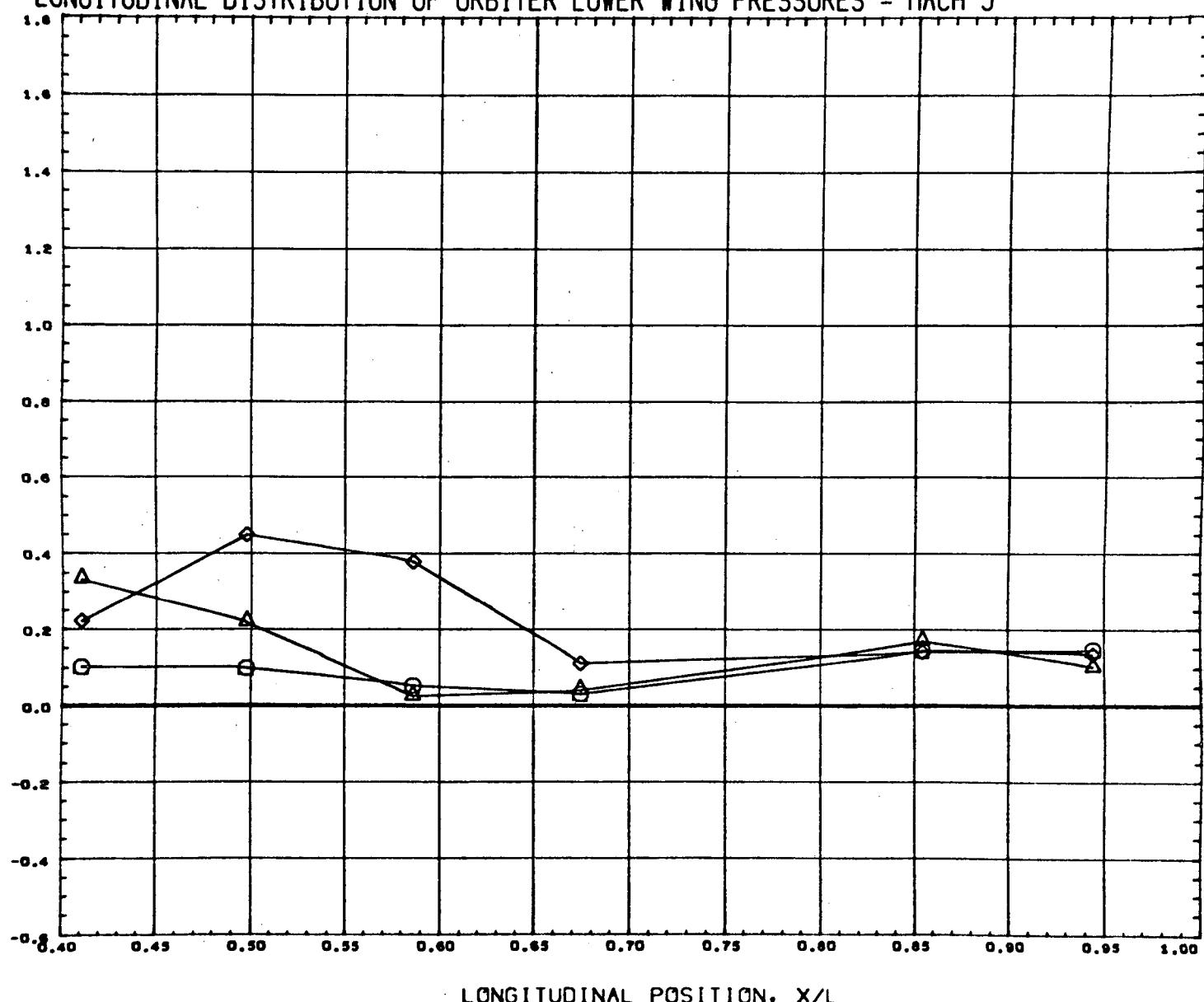
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8544•

PAGE 764

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



SYMBOL	DELTA X	T/B	DELTA Z
-	0.144	0.230	0.150
△	0.103		
◊	0.226		

PARAMETRIC VALUES			
ALPHAB	10.050	MACH	4.970
ALPHAT	5.000	ORBPOW	100.000
BSTPOW	50.000		

REFERENCE FILE

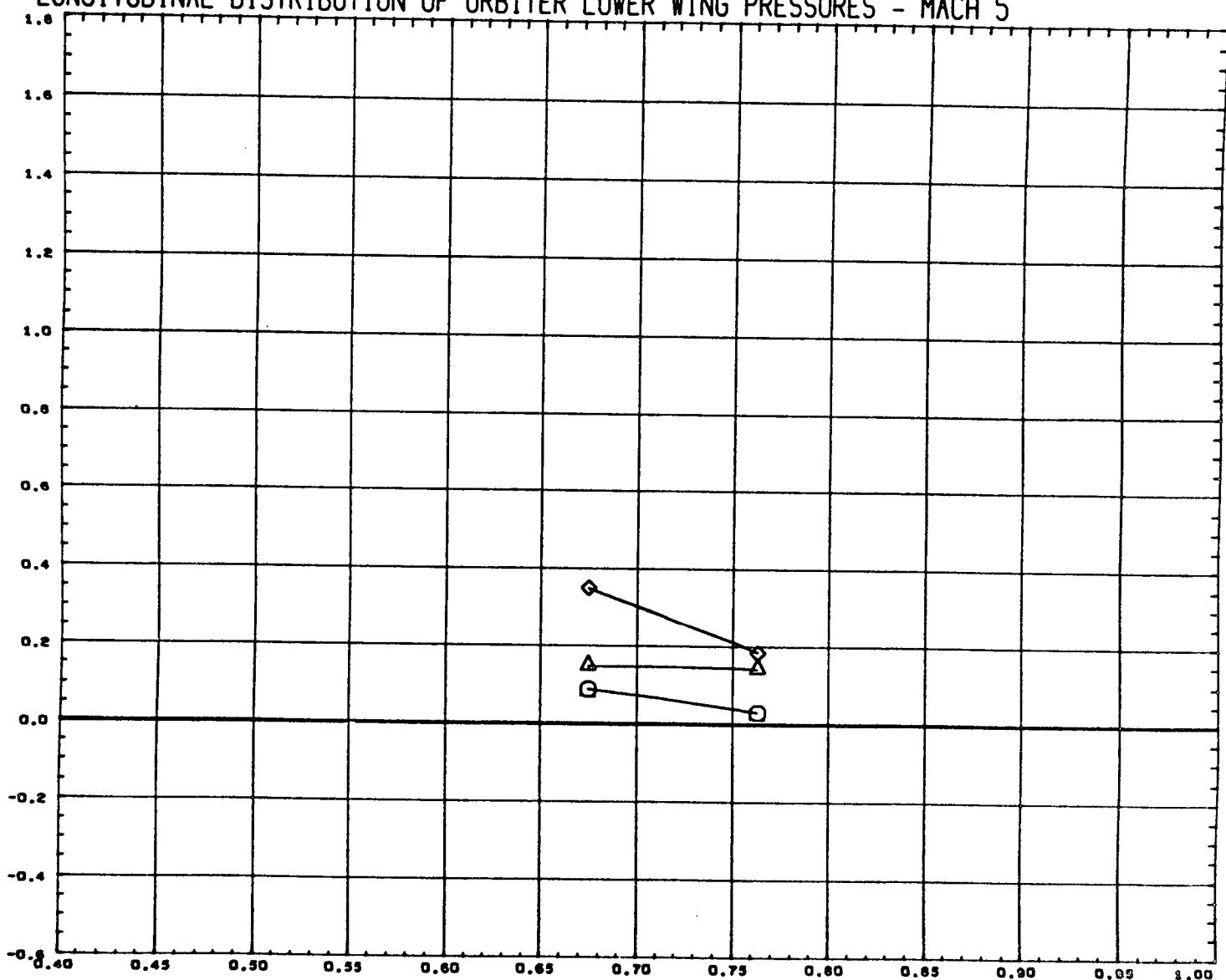
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8545•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



LONGITUDINAL POSITION. X/L

SYMBOL	DELTA X	Y/B	DELTA Z
-	0.144	0.399	0.150
△	0.193	-	-
◊	0.226	-	-

PARAMETRIC VALUES			
ALPHAB	10.050	MACH	4.070
ALPHAI	3.000	ORBPOW	100.000
BSTPOW	50.000		

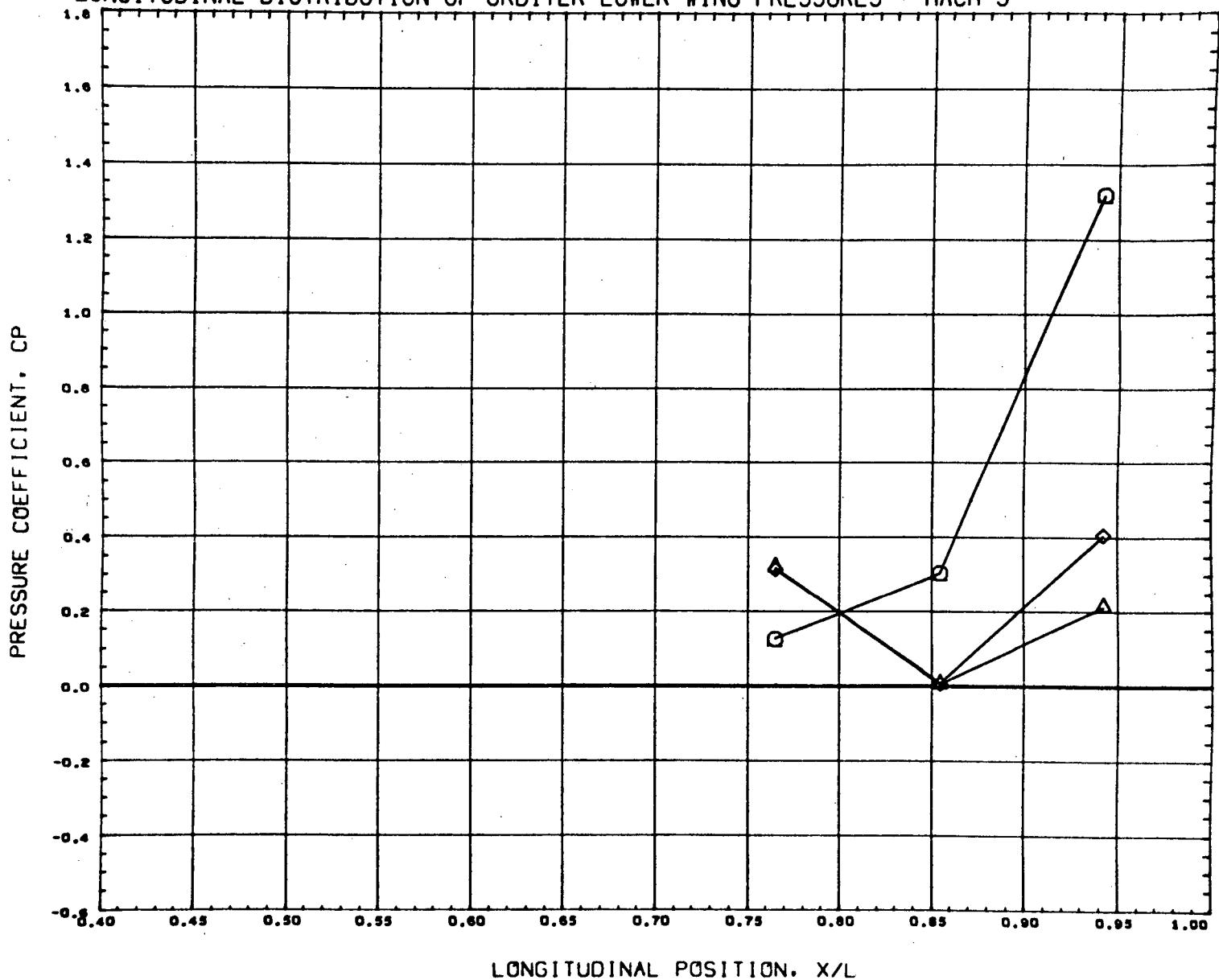
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AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8545•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL DELTAX T/B DELTAZ

○ - 0.144 0.568 0.150

△ 0.103

◊ 0.226

PARAMETRIC VALUES

ALPHAB	10.050	MACH	4.970
ALPHAI	5.000	ORBPOW	100.000
BSTPOW	50.000		

REFERENCE FILE

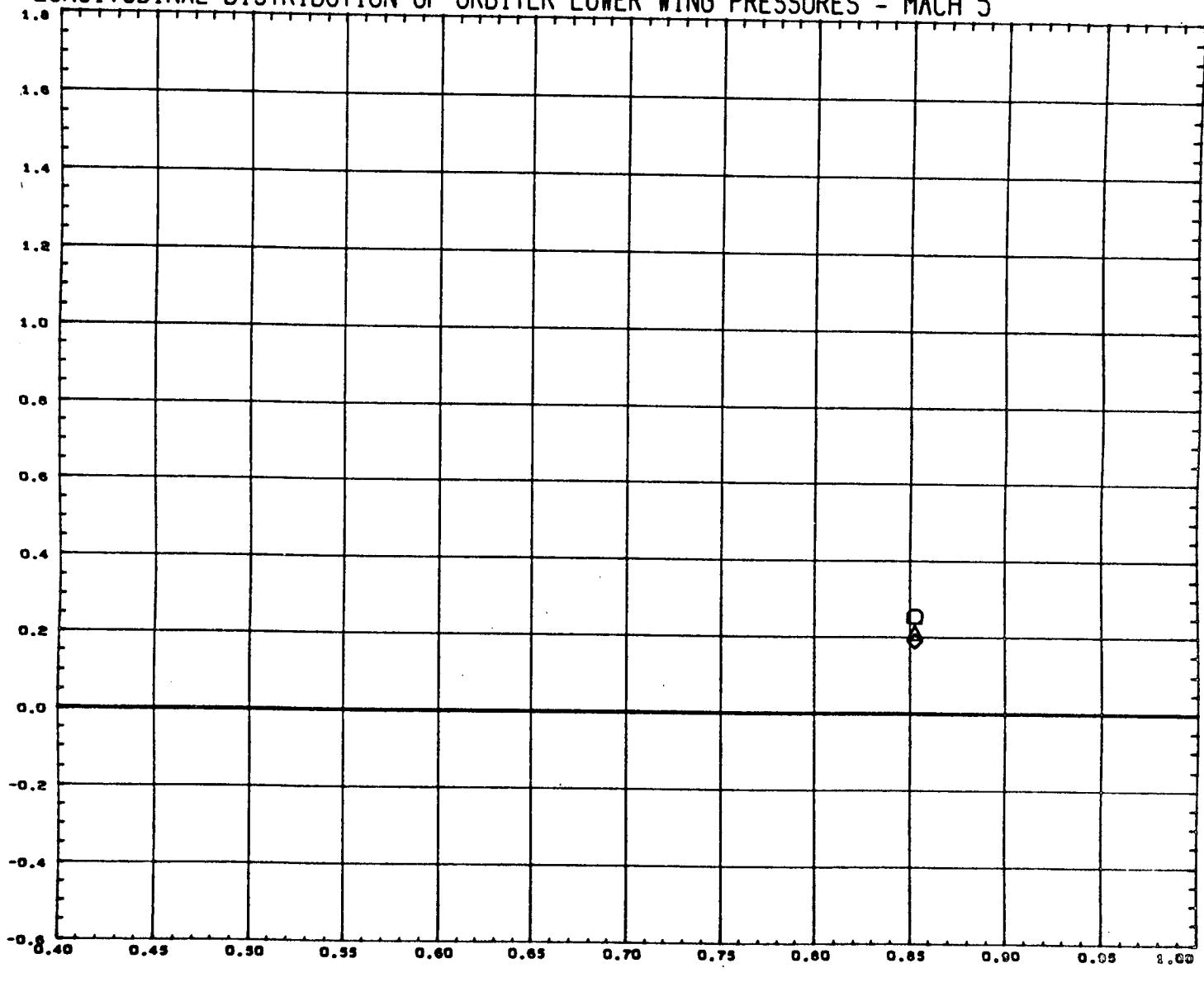
AEDC VAI163 MDAC ORBITER (LOWER WING)

•HT8545•

PAGE 767

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



SYMBOL	DELTA X	Y/B	DELTA Z
-	0.144	0.738	0.190
Δ	0.103		
◊	0.226		

PARAMETRIC VALUES			
ALPHAB	10.050	MACH	4.970
ALPHAT	5.000	ORBPOW	100.000
BSTPOW	50.000		

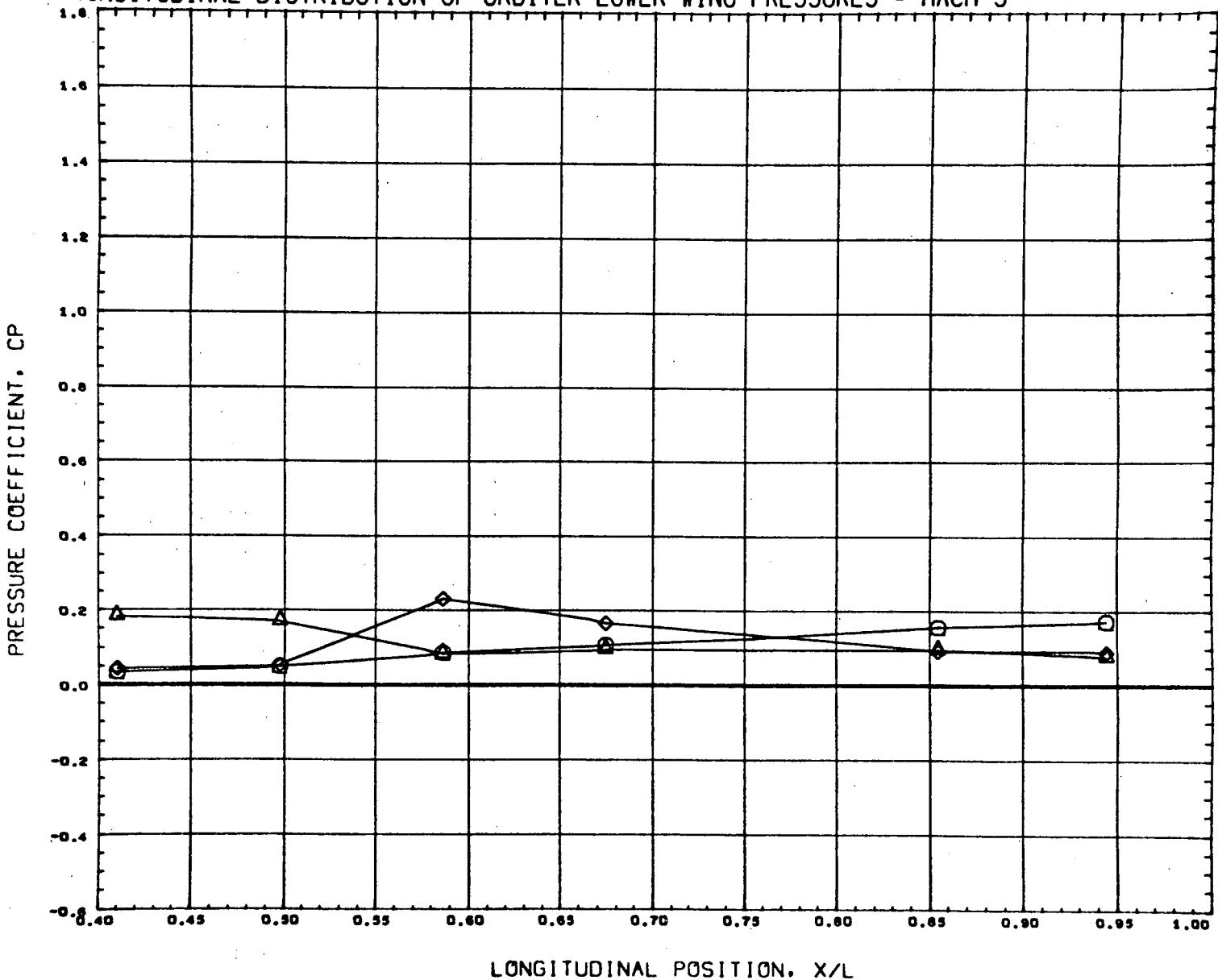
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AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8545•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL DELTAX Y/B DELTAZ

\circ	- 0.144	0.230	0.150
\triangle	0.102		
\diamond	0.226		

PARAMETRIC VALUES

ALPHAB	- 4.891	MACH	4.970
ALPHAI	5.000	ORBPOW	0.000
BSTPOW	0.000		

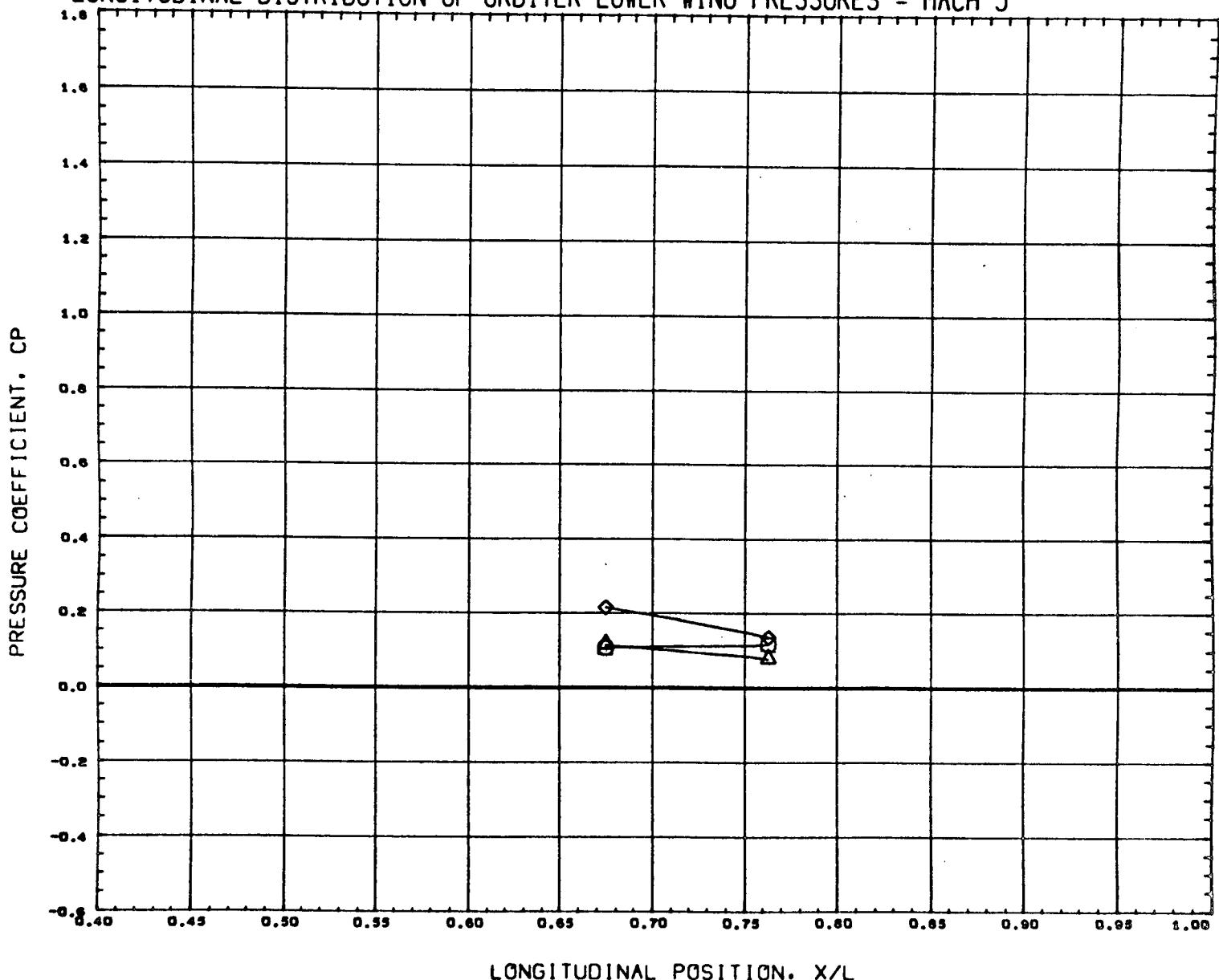
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AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8552•

PAGE 769

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL DELTAX T/2 DELTAZ

△ - 0.144 0.399 0.150

△ 0.102

◊ 0.226

PARAMETRIC VALUES

ALPHAB	= 4.691	MACH	4.970
ALPHAI	9.000	ORBPOW	0.000
BSTPOW	0.000		

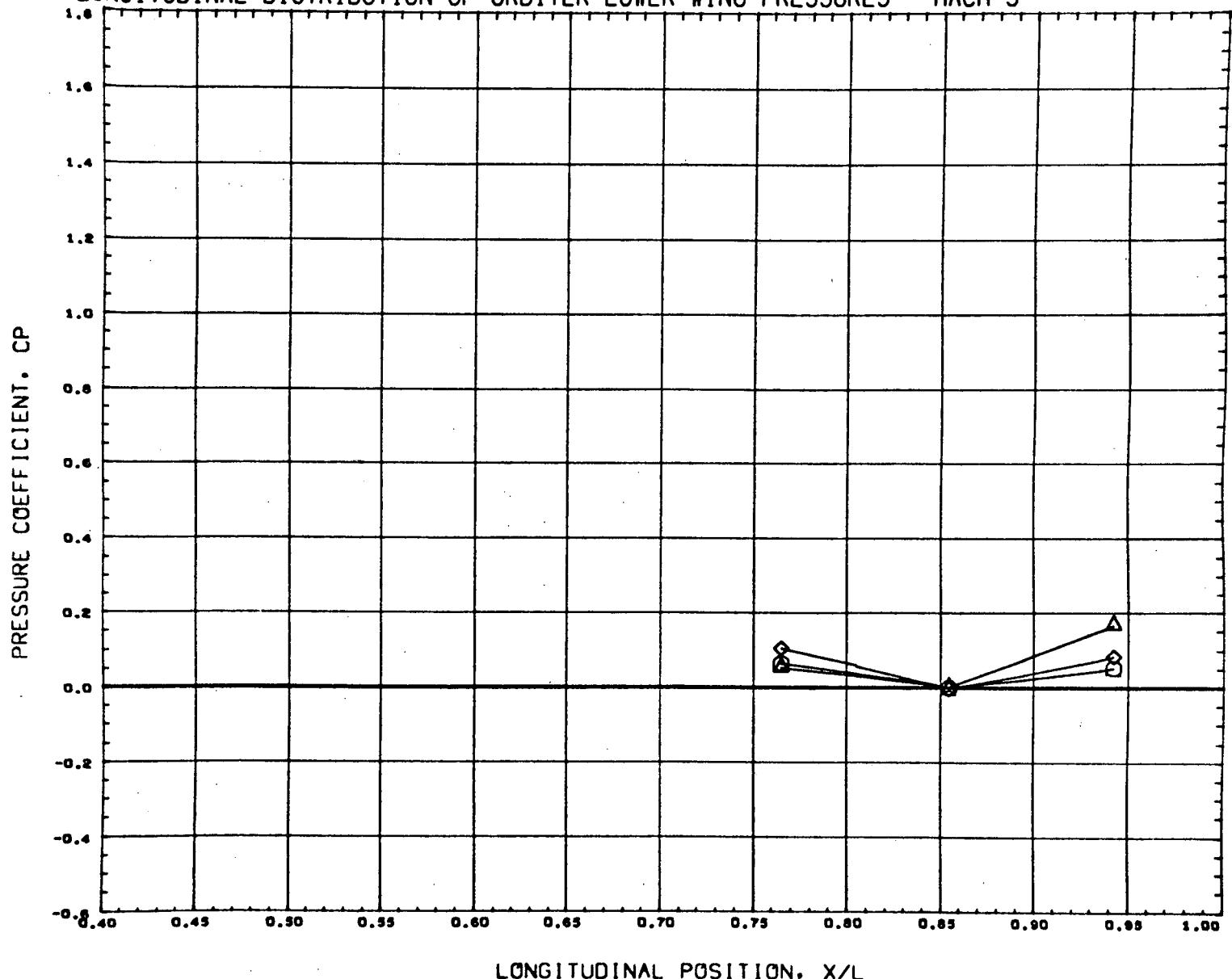
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AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8552•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



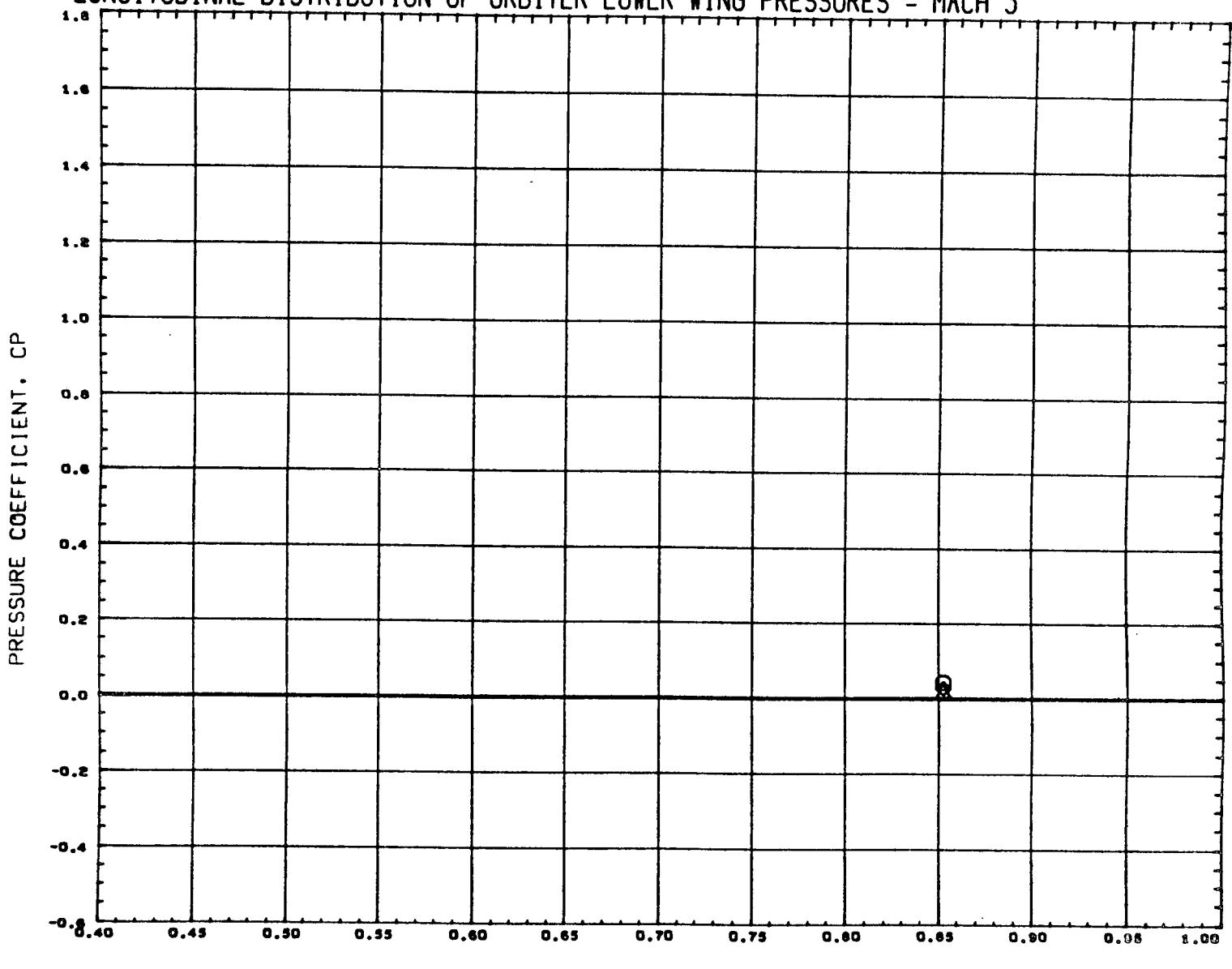
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AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8552•

PAGE 771

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
C	-0.144	0.738	0.150
△	0.102		
◊	0.226		

PARAMETRIC VALUES		
ALPHAB	-4.891	MACH 4.970
ALPHAI	5.000	ORBPOW 0.000
BSTPOW	0.000	

REFERENCE FILE

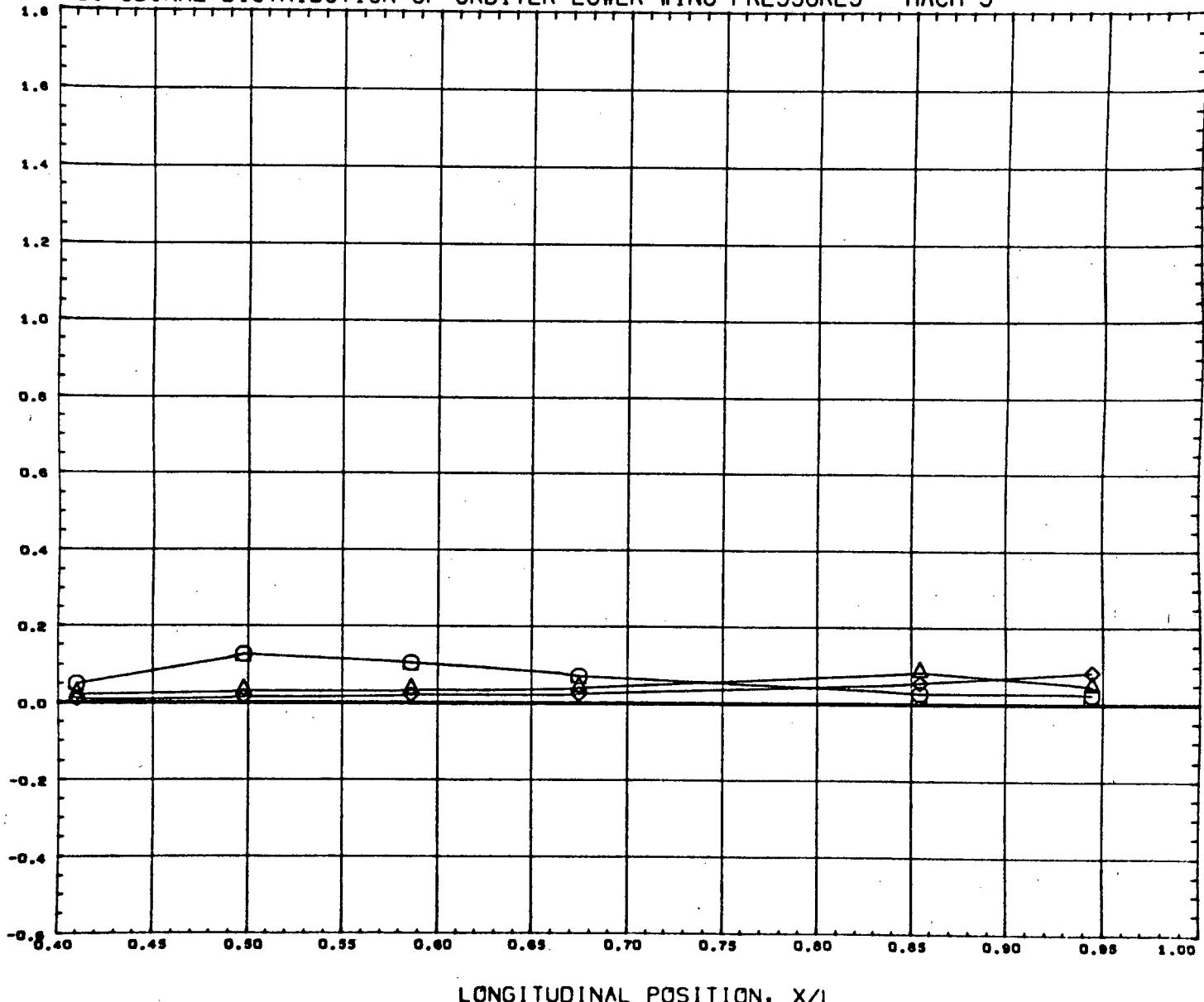
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8552•

PAGE 772

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/E	DELTA Z
C	- 0.144	0.230	0.226
Δ	0.102		
◊	0.226		

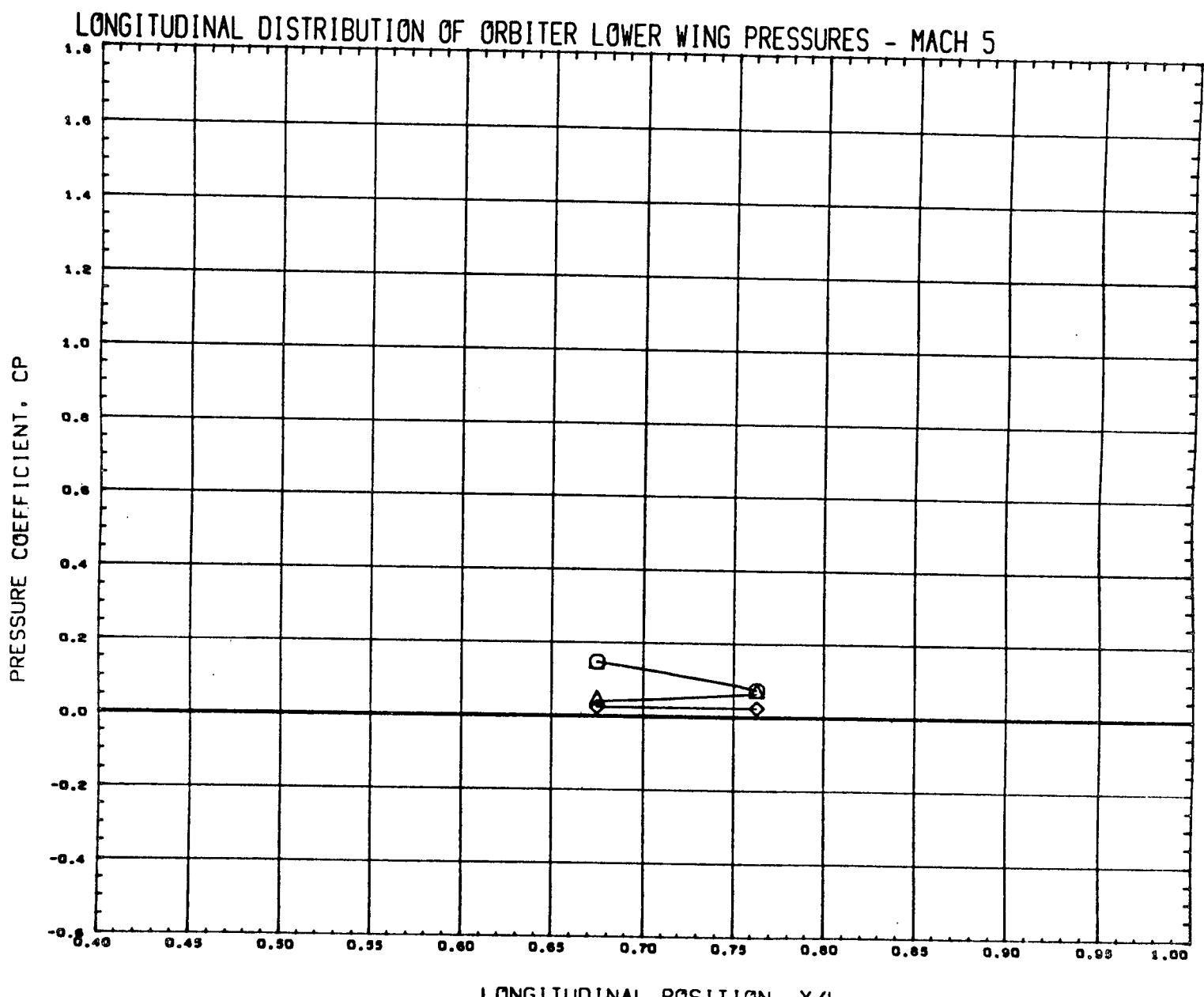
PARAMETRIC VALUES			
ALPHAB	- 4.891	MACH	4.970
ALPHAI	5.000	ORBPOW	0.000
BSTPOW	0.000		

REFERENCE FILE

AEDC VAI163 MDAC ORBITER (LOWER WING)

•HT8552•

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PARAMETRIC VALUES

	ALPHAB	MACH
ALPHAI	- 4.891	4.970
BSTPOW	5.000	ORBPOW
	0.000	

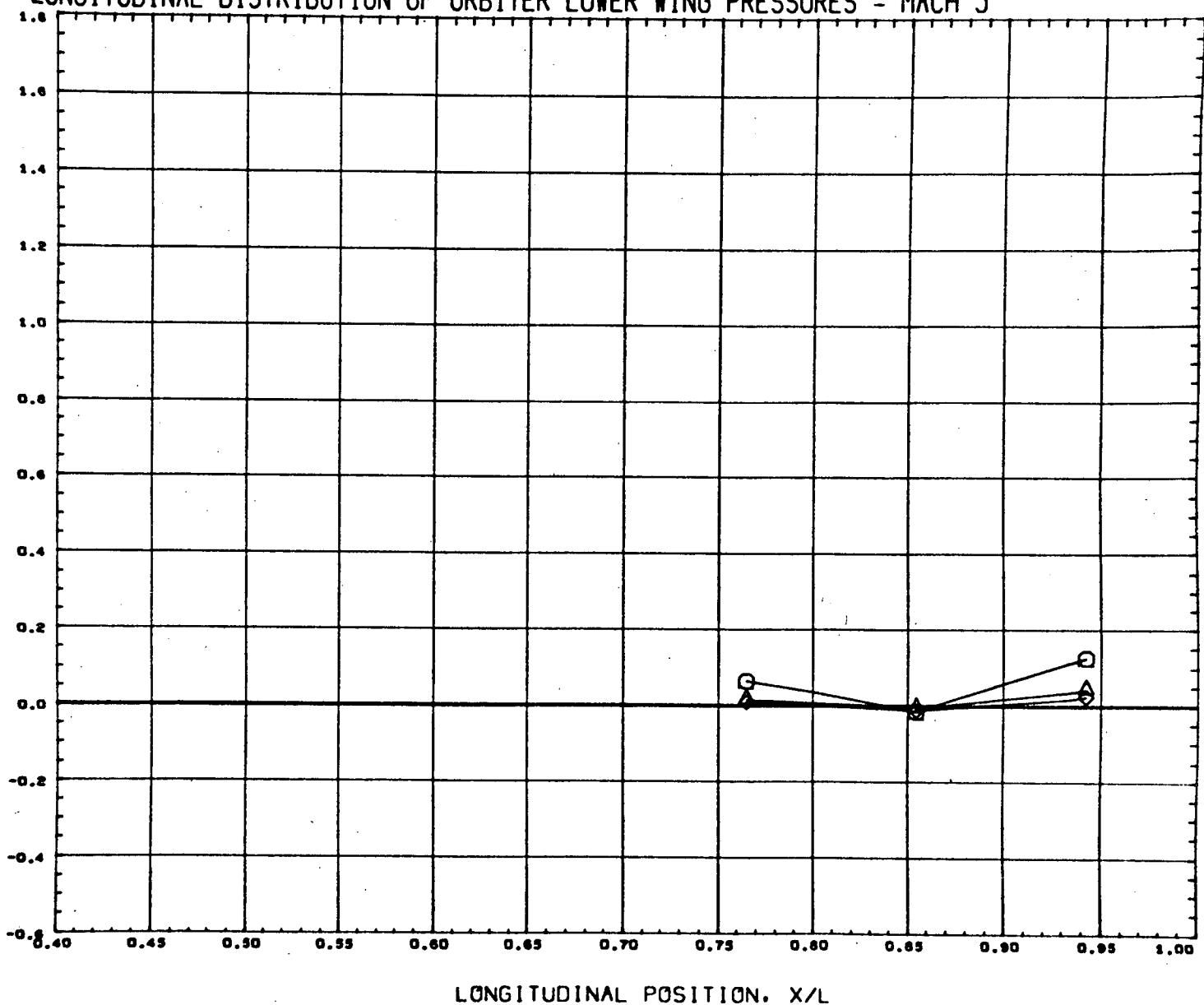
REFERENCE FILE
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8552•

PAGE 774

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



LONGITUDINAL POSITION. X/L

SYMBOL	DELTA X	Y/B	DELTA Z
-	0.144	0.568	0.226
△	0.102		
◊	0.226		

PARAMETRIC VALUES			
ALPHAB	-	4.891	MACH
ALPHAI		5.000	ORBPOW
BSTPOW		0.000	

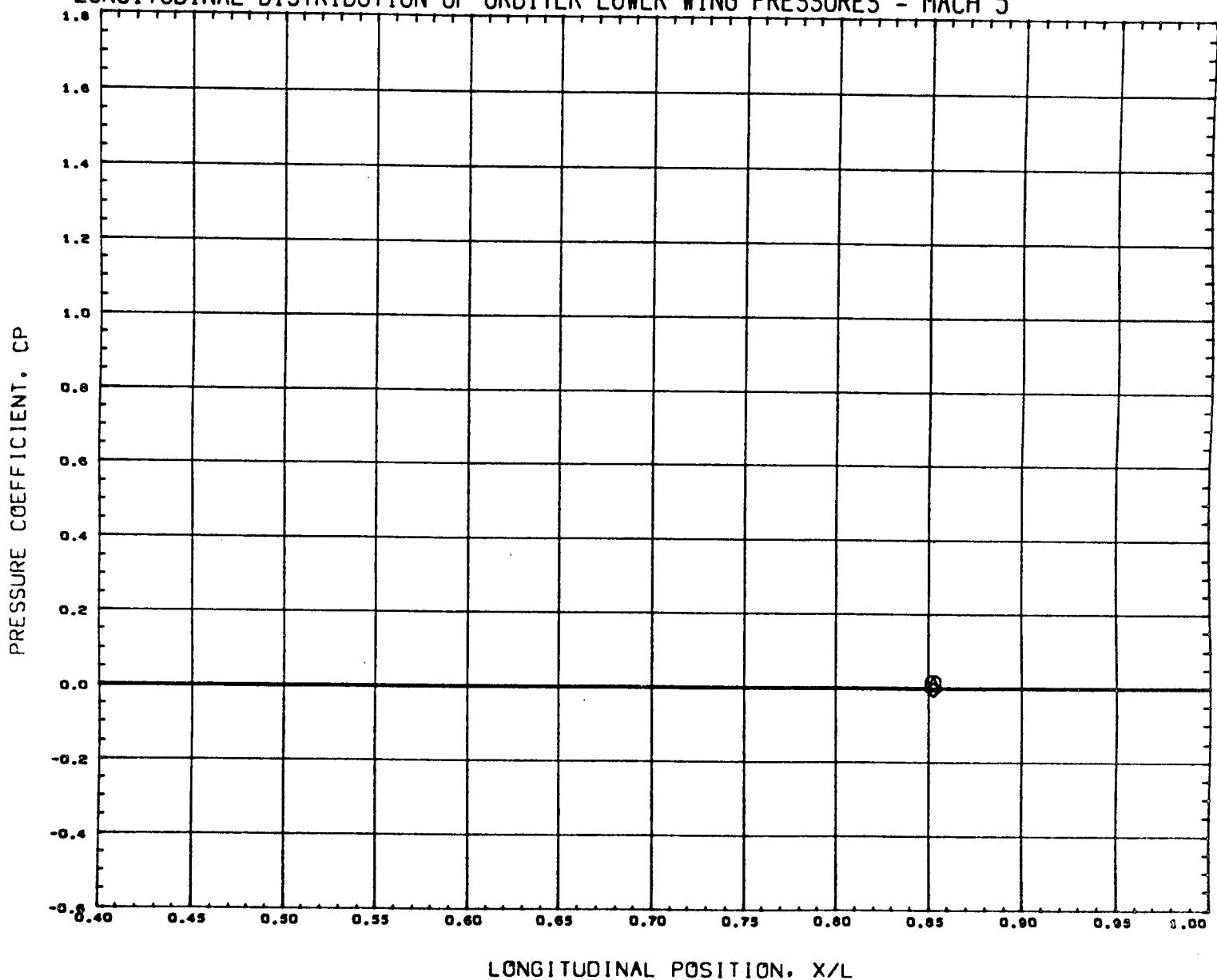
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AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8552•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
-	0.144	0.738	0.226
△	0.102		
◊	0.226		

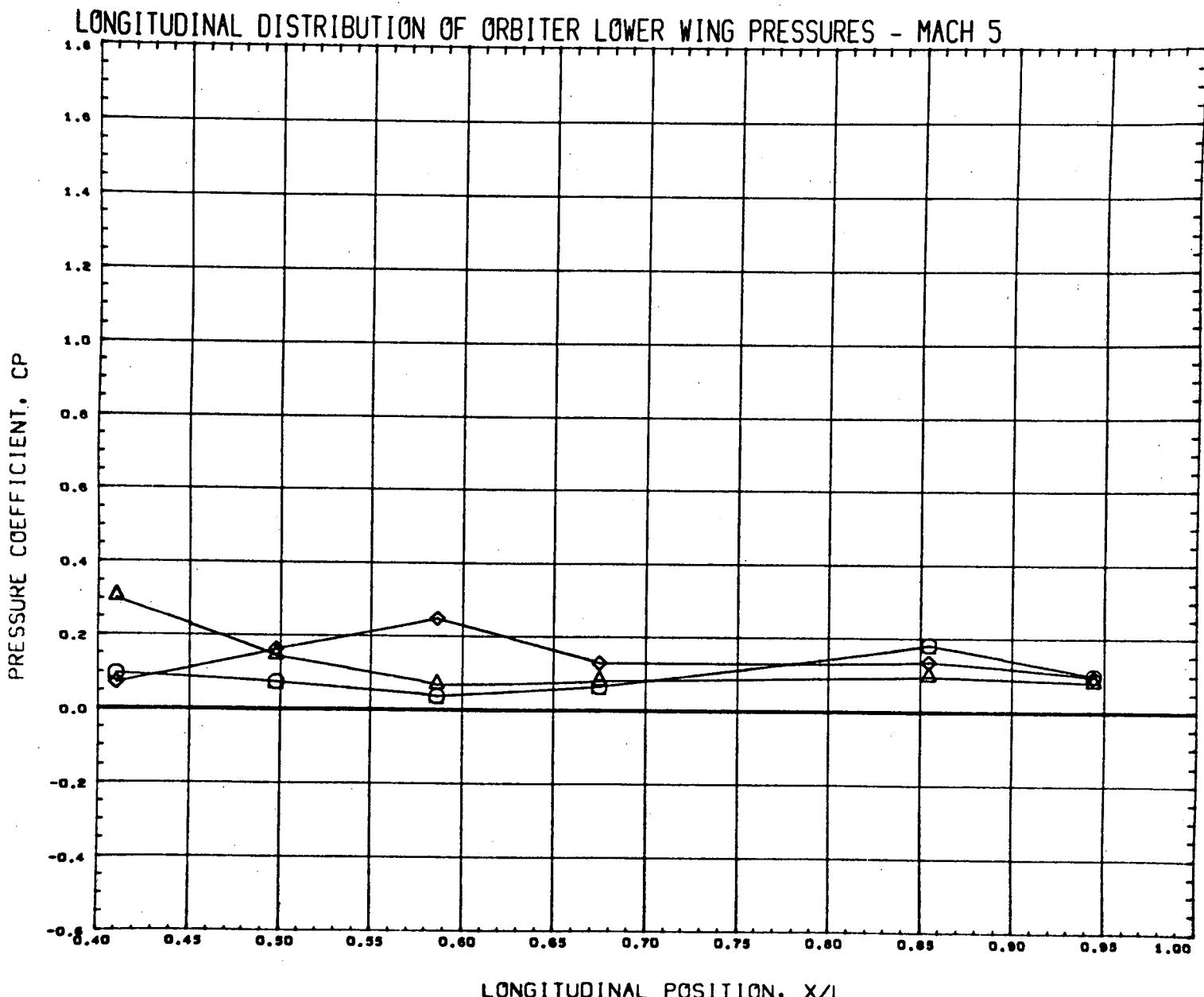
PARAMETRIC VALUES		
ALPHAB	-	4.891
ALPHAI		5.000
BSTPOW		0.000

REFERENCE FILE

AEDC VAI163 MDAC ORBITER (LOWER WING)

•HT8552•

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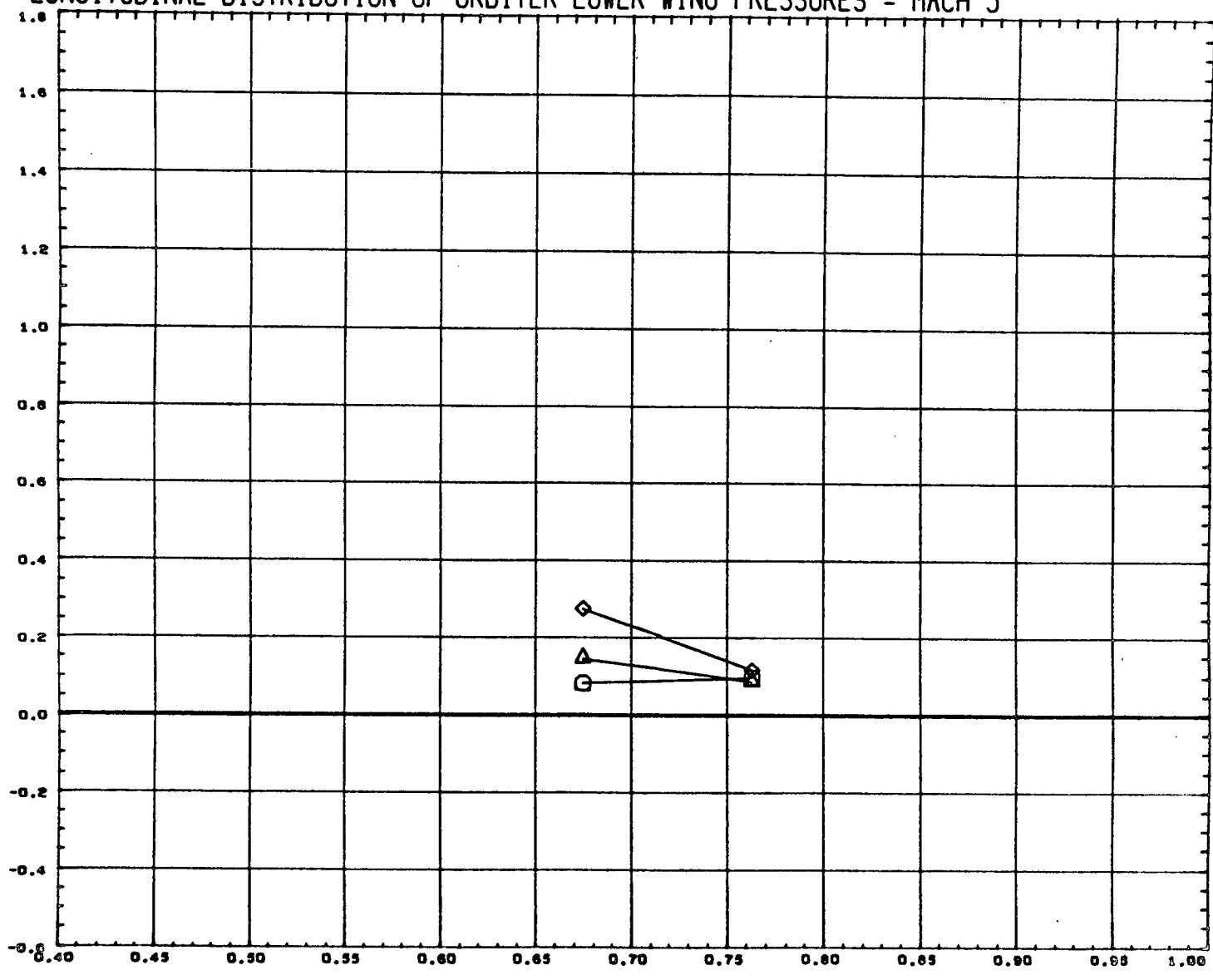
REFERENCE FILE
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8553•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION. X/L

SYMBOL	DELTA X	T/B	DELTA Z
-	0.144	0.399	0.150
△	0.102		
◊	0.226		

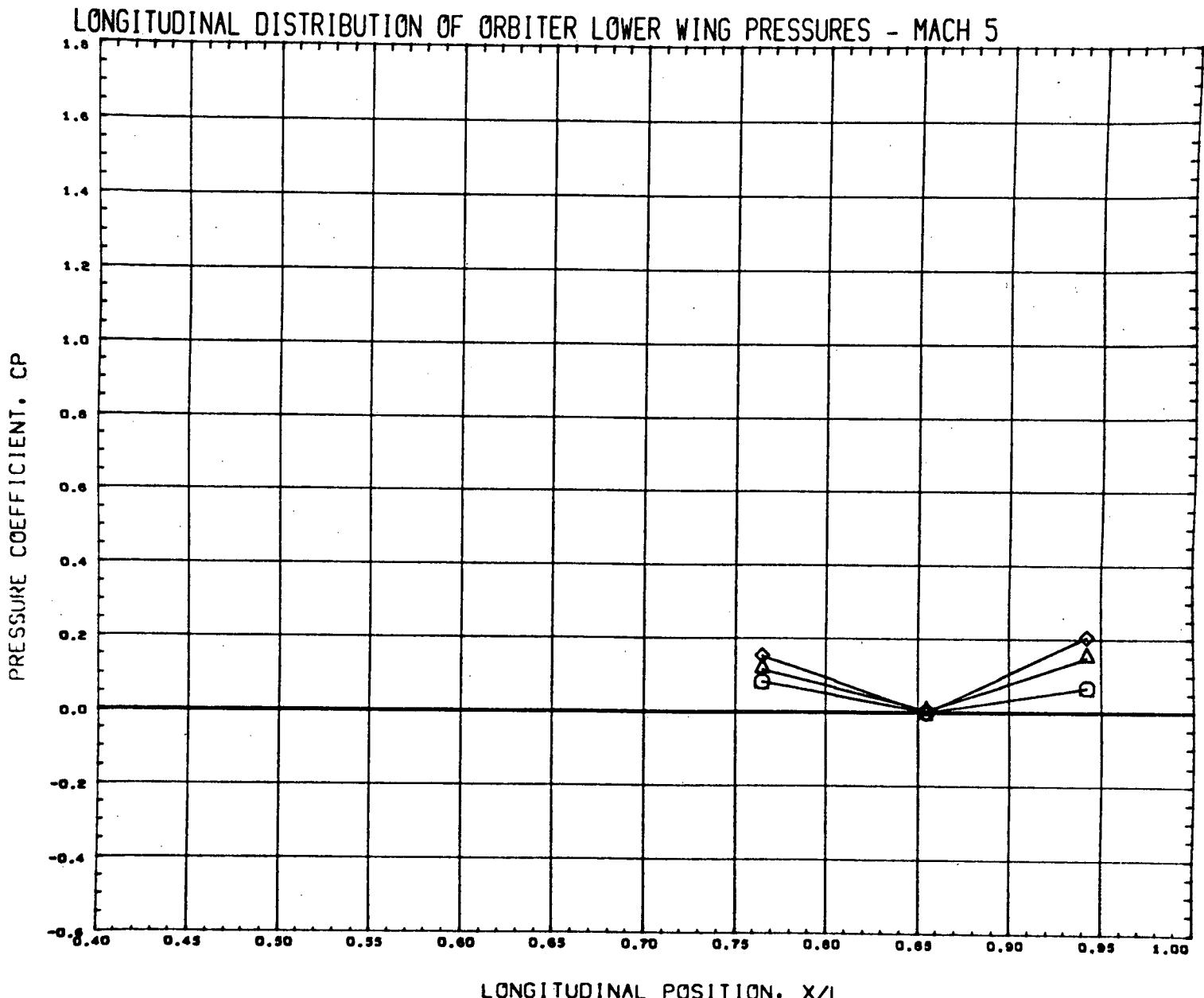
PARAMETRIC VALUES		
ALPHAB	0.060	MACH
ALPHAI	5.000	ORBPOW
BSTPOW	0.000	

REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8553•

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PARAMETRIC VALUES		
ALPHAB	0.060	MACH 4.970
ALPHAI	5.000	ORBPOW 0.000
BSTPOW	0.000	

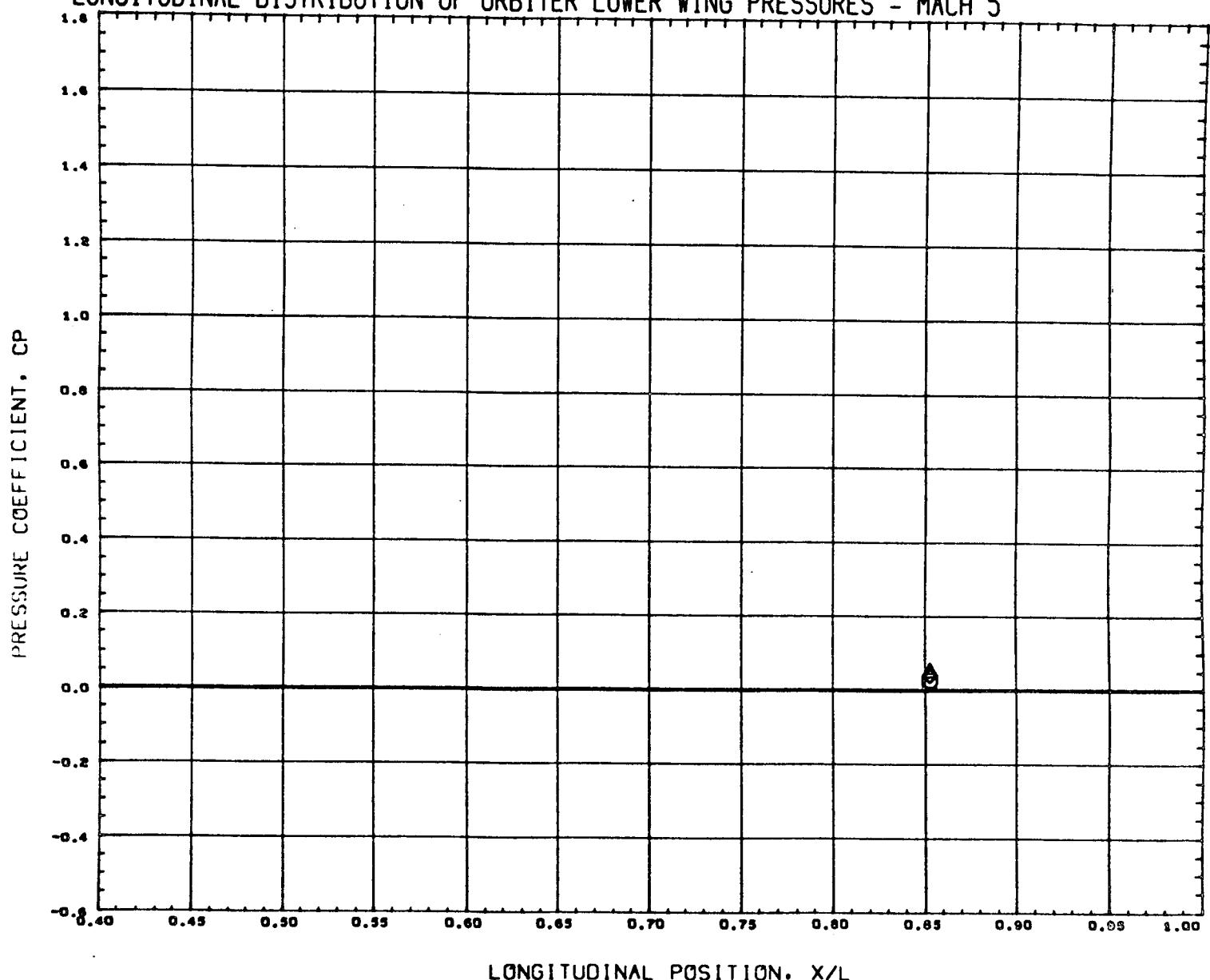
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8553•

PAGE 779

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL DELTAX Y/B DELTAZ
 - 0.144 0.736 0.150
 △ 0.102
 ◊ 0.226

PARAMETRIC VALUES
 ALPHAB 0.060 MACH 4.970
 ALPHA1 5.000 ORBPOW 0.000
 SSTPOW 0.000

REFERENCE FILE

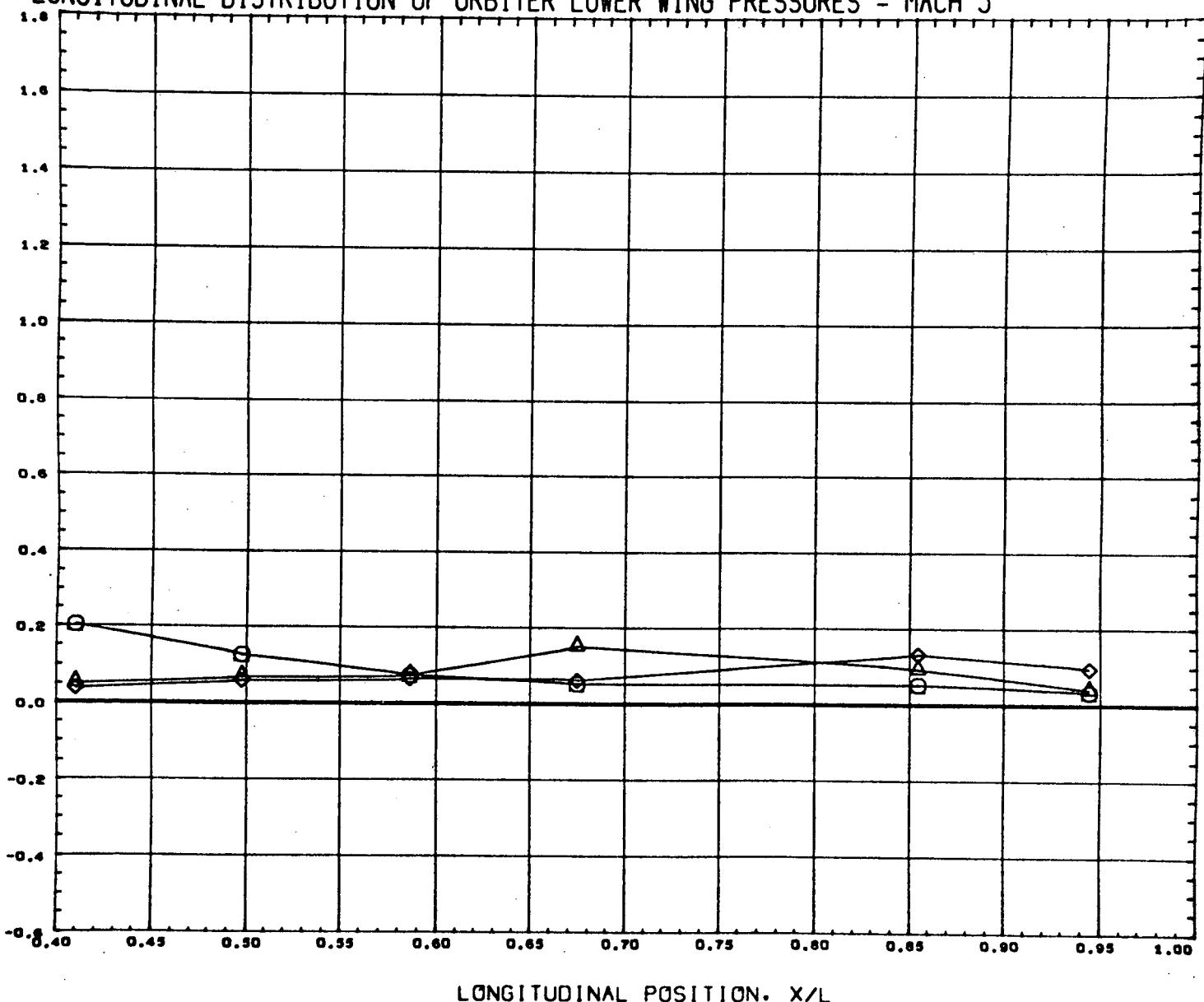
AEDC VAI163 MDAC ORBITER (LOWER WING)

•HT8553•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



LONGITUDINAL POSITION. X/L

SYMBOL	DELTA X	T/8	DELTA Z
-	0.144	0.230	0.226
△	0.102		
◇	0.226		

PARAMETRIC VALUES		
ALPHAB	0.060	MACH
ALPHAI	5.000	ORBPOW
BSTPOW	0.000	

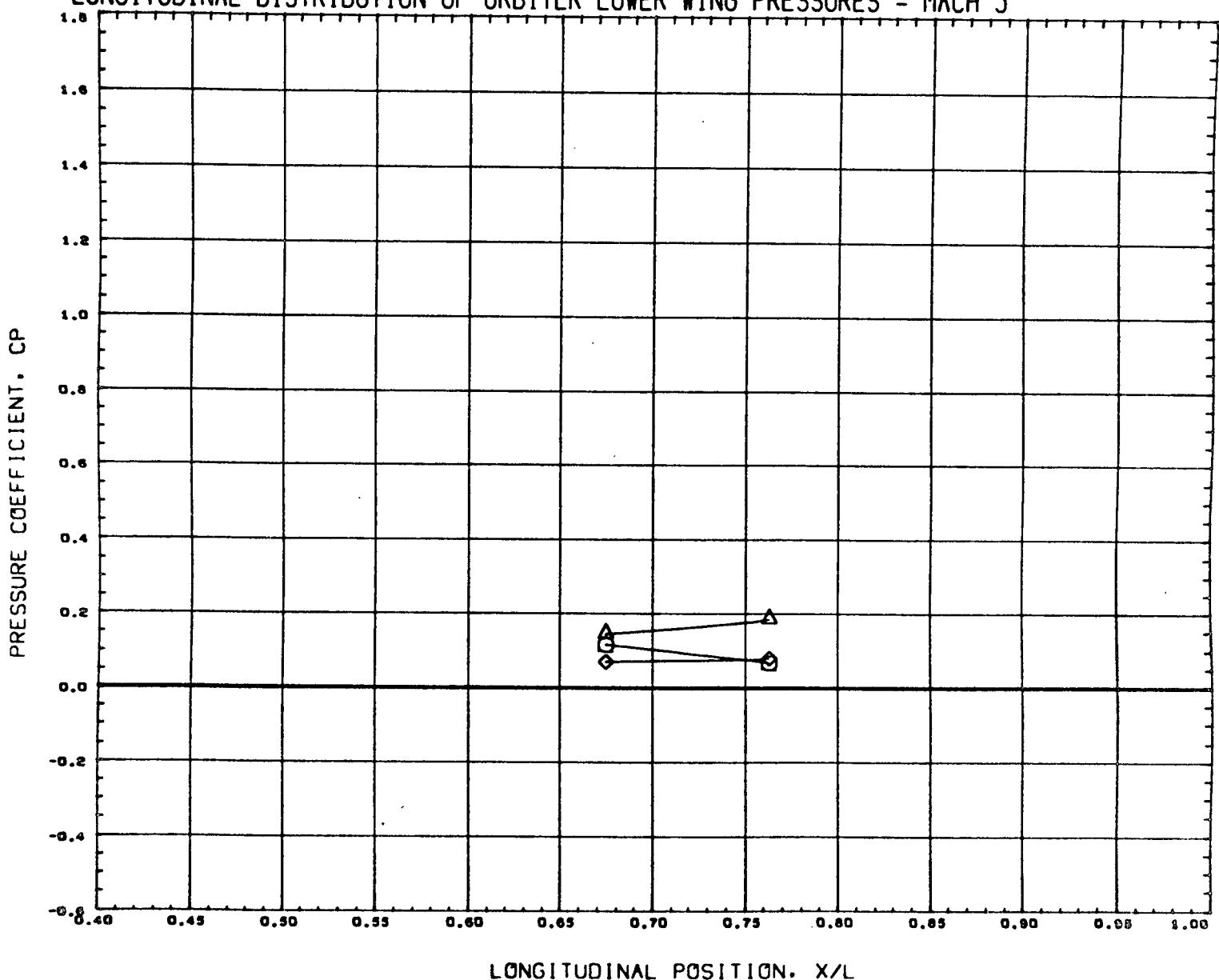
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AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8553•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



PARAMETRIC VALUES		
ALPHAB	0.060	MACH 4.970
ALPHAI	5.000	ORBPOW 0.000
BSTPOW	0.000	

REFERENCE FILE

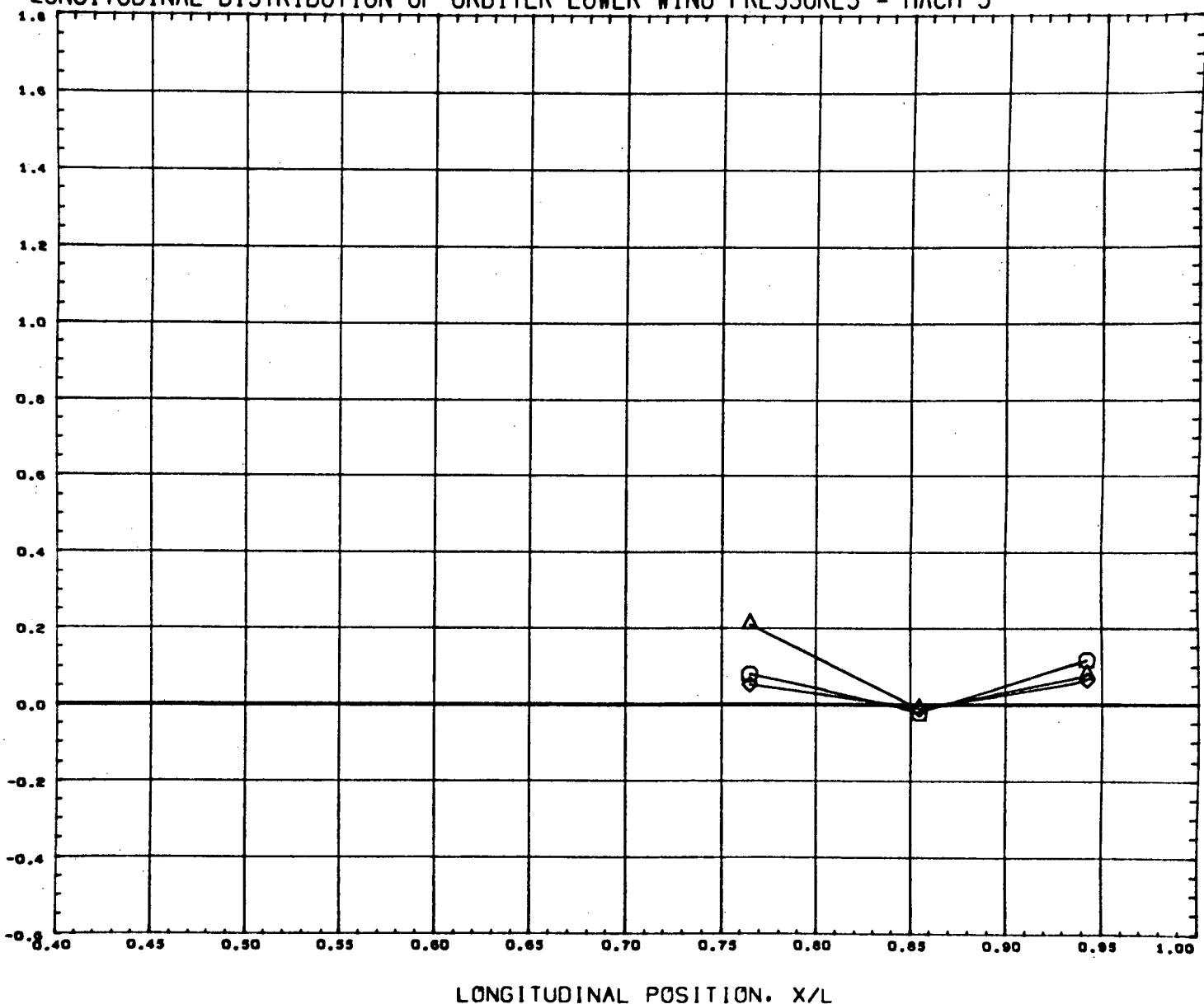
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8553•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



LONGITUDINAL POSITION. X/L

SYMBOL	DELTA X	T/B	DELTAZ
-	0.144	0.368	0.220
△	0.102		
◊	0.226		

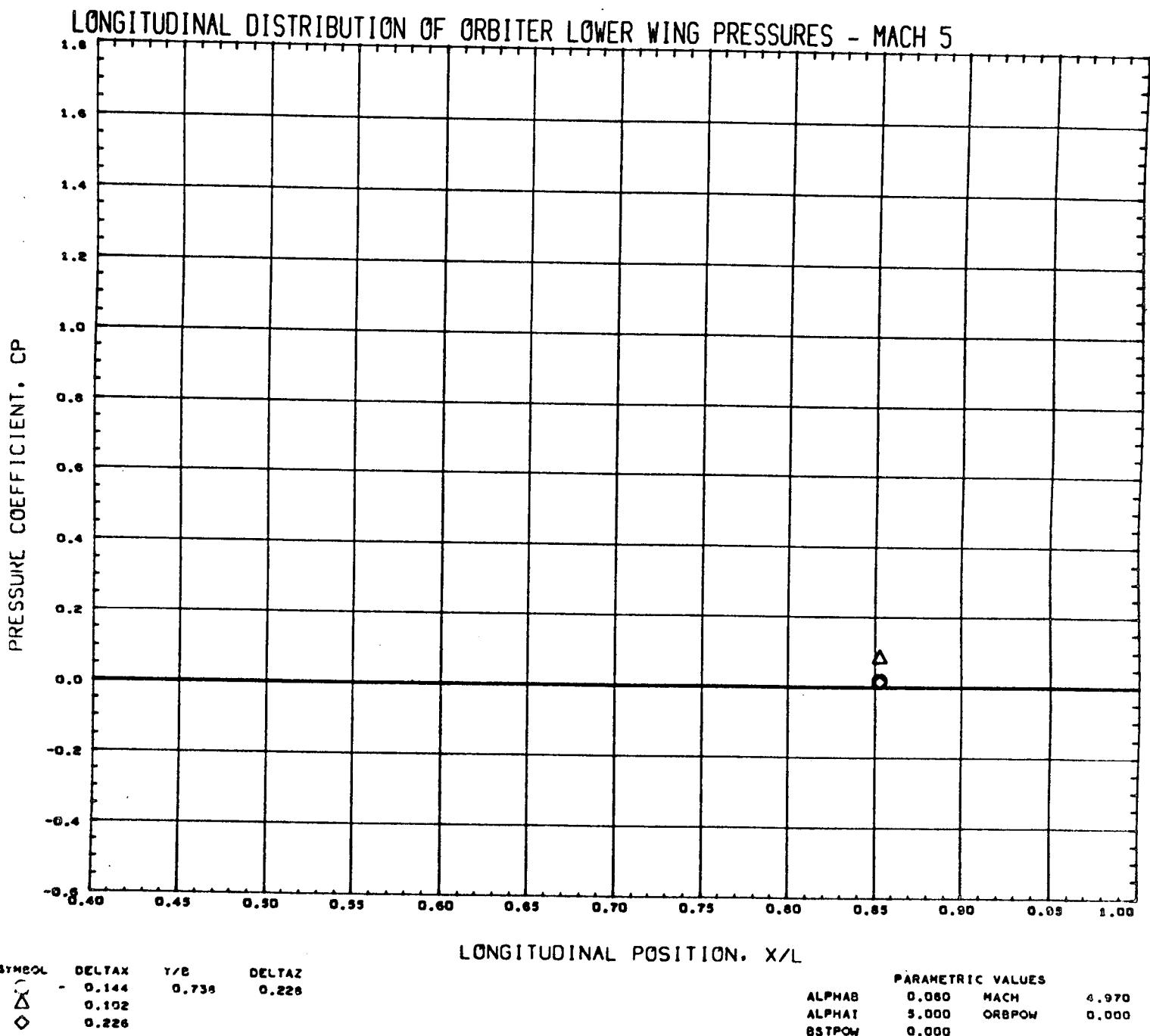
PARAMETRIC VALUES		
ALPHAB	0.060	MACH 4.970
ALPHAI	5.000	ORBPOW 0.000
BSTPOW	0.000	

REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8553•

PAGE 783



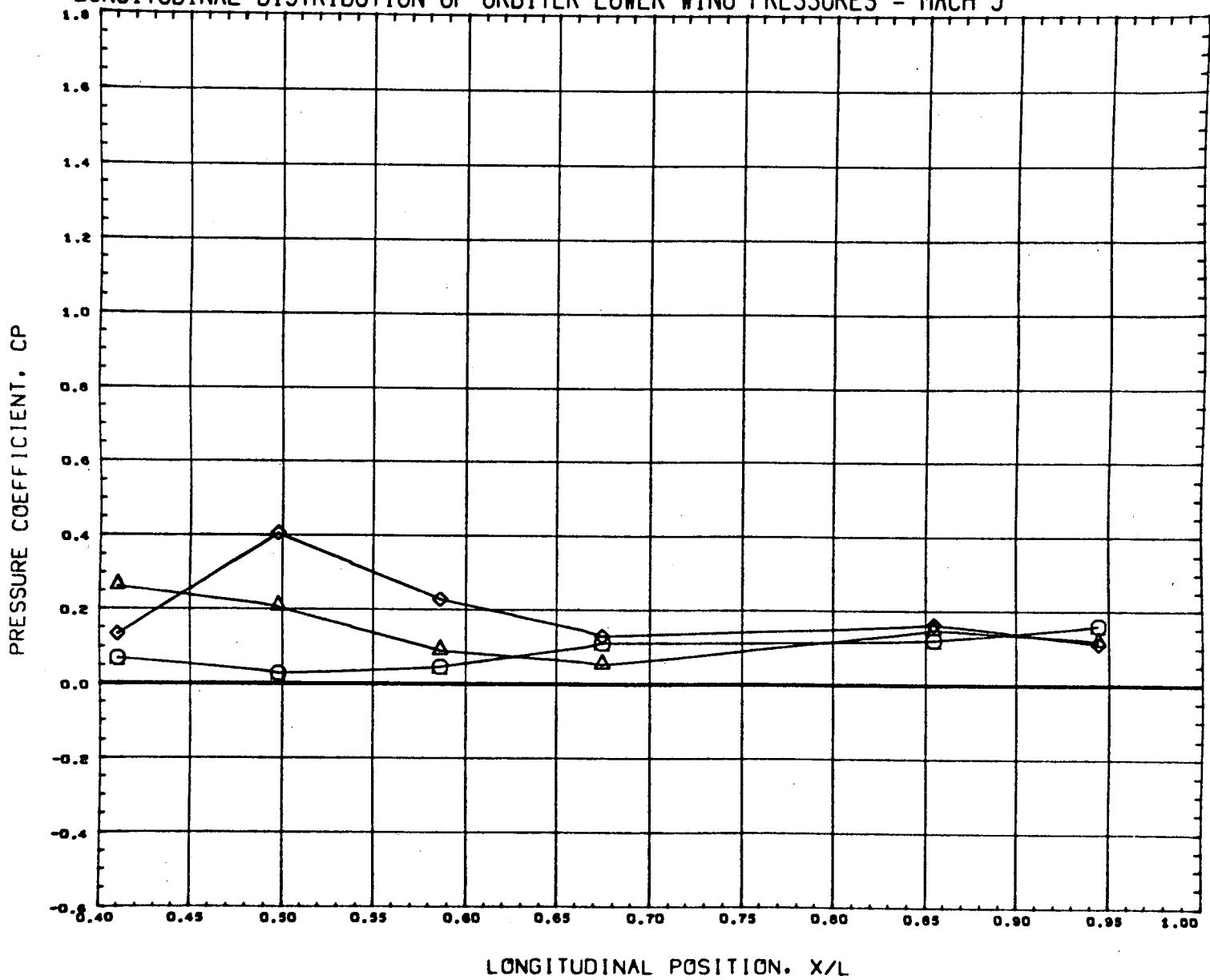
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8553•

PAGE 784

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
Δ	-0.144	0.230	0.150
\diamond	0.102		
\circ	0.226		

LONGITUDINAL POSITION. X/L

PARAMETRIC VALUES			
ALPHAB	5.033	MACH	4.970
ALPHAI	5.000	ORBPON	0.000
BSTPOW	0.000		

REFERENCE FILE

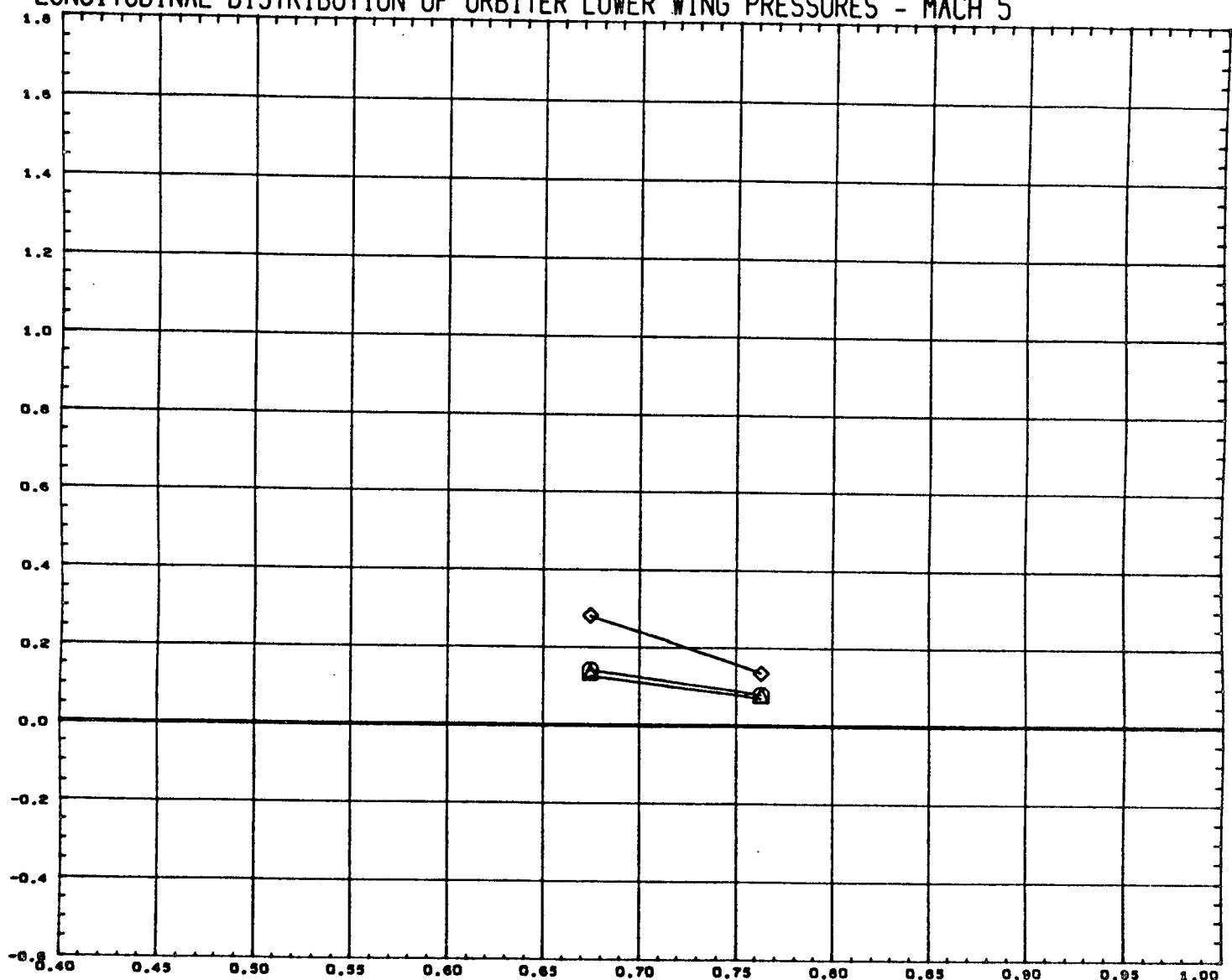
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8554•

PAGE 785

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



LONGITUDINAL POSITION. X/L

SYMBOL	DELTA X	T/B	DELTA Z
△	-0.144	0.399	0.150
△	0.192		
○	0.226		

PARAMETRIC VALUES			
ALPHAB	5.033	MACH	4.970
ALPHAT	5.000	ORBPOW	0.000
BSTPOW	0.000		

REFERENCE FILE

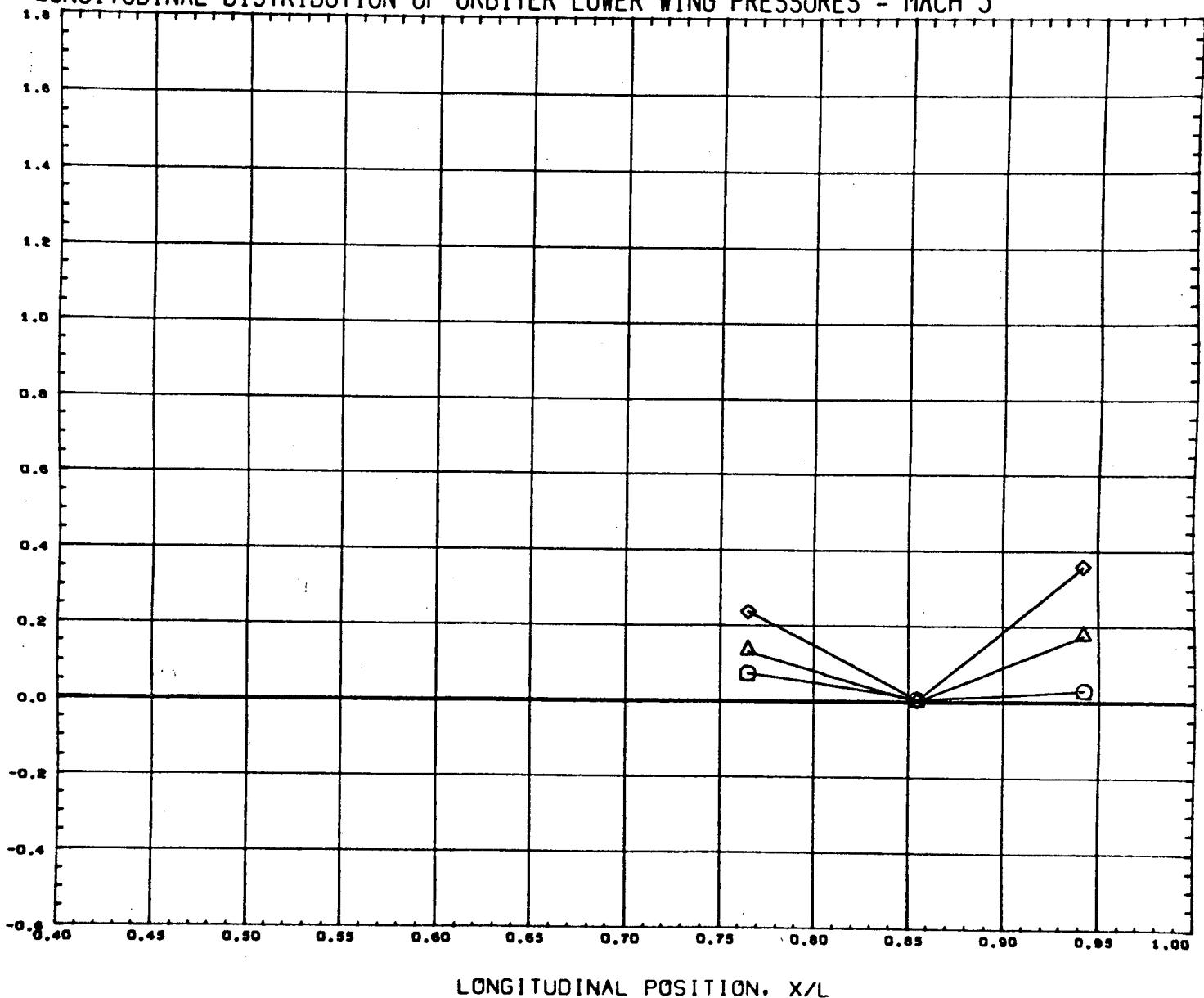
AEDC VAI163 MDAC ORBITER (LOWER WING)

•HT8554•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL DELTAX Y/B DELTAZ

○ - 0.144 0.569 0.150

△ 0.102

◊ 0.226

PARAMETRIC VALUES		
ALPHAB	5.033	MACH 4.970
ALPHAI	5.000	ORBPOW 0.000
BSTPOW	0.000	

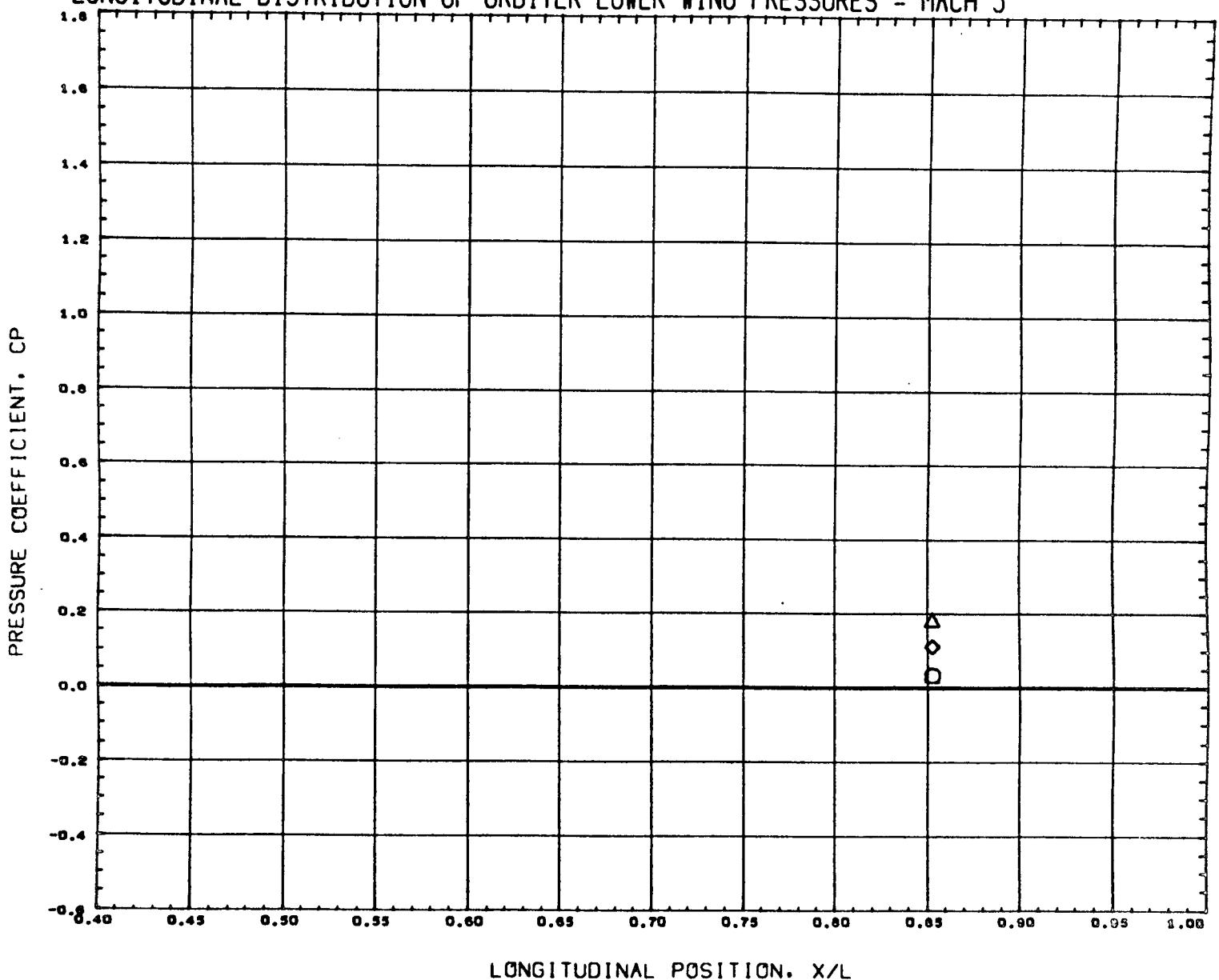
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8554•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTAX	Y/B	DELTAZ
-	0.144	0.739	0.150
△	0.102		
◊	0.226		

PARAMETRIC VALUES			
ALPHAB	5.033	MACH	4.970
ALPHAI	5.000	ORBPOW	0.000
BSTPOW	0.000		

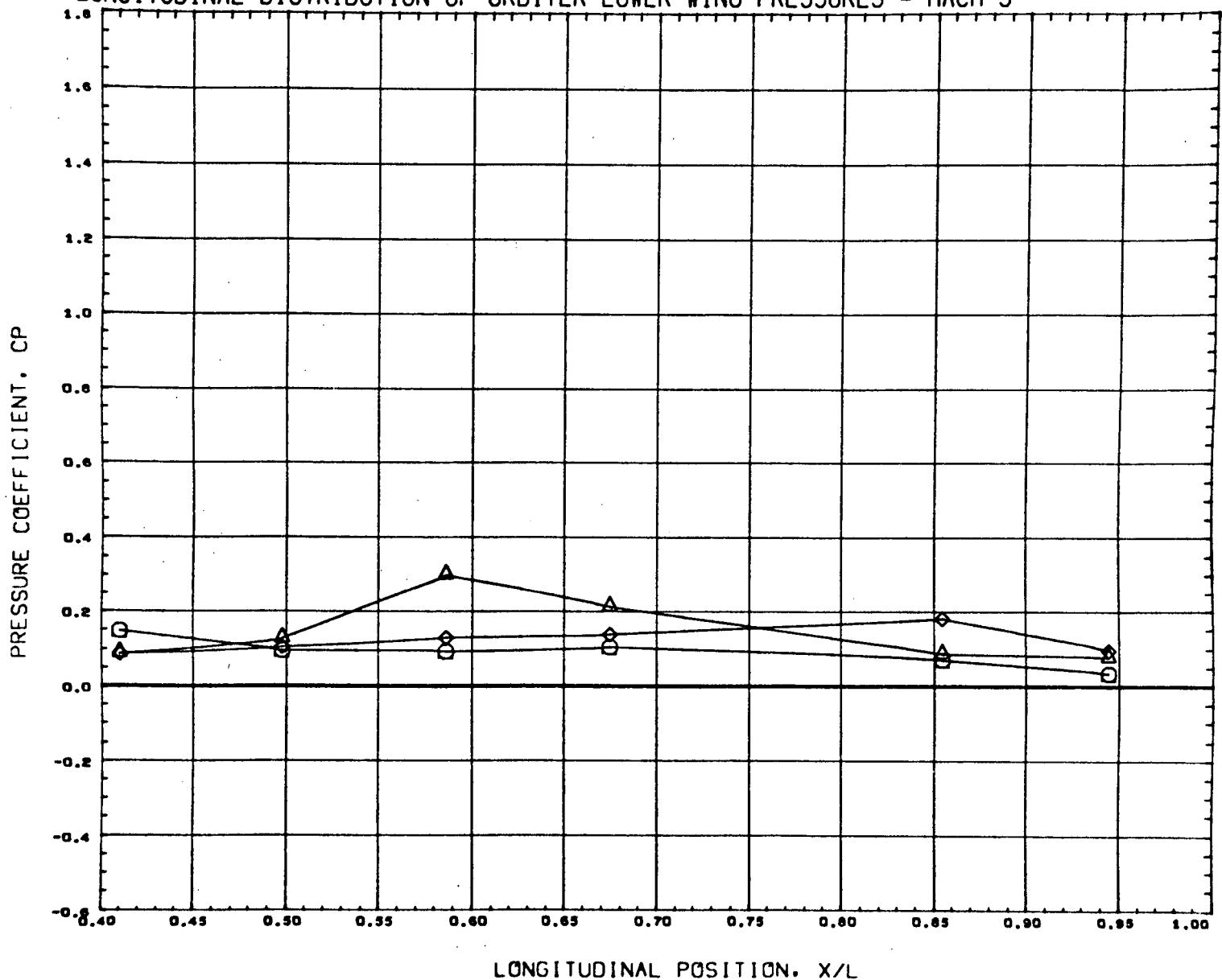
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AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8554•

PAGE 788

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
-	0.144	0.230	0.227
Δ	0.102		
\diamond	0.226		

PARAMETRIC VALUES			
ALPHAB	3.033	MACH	4.970
ALPHAI	5.000	ORBPOW	0.000
BSTPOW	0.000		

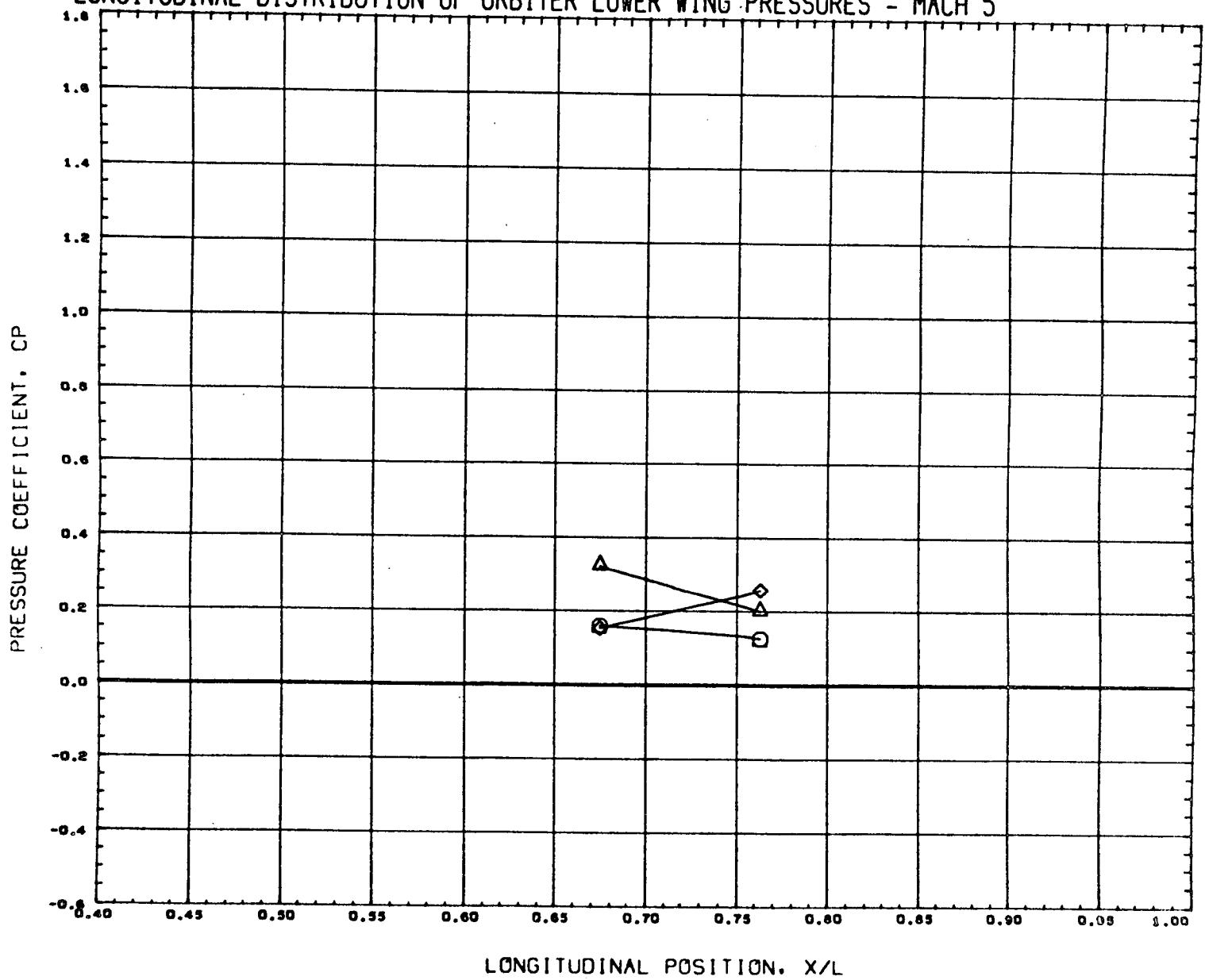
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AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8554•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL DELTAX Y/B DELTAZ
 ▲ 0.144 0.399 0.227
 ● 0.102 0.227
 ◇ 0.226

LONGITUDINAL POSITION. X/L

PARAMETRIC VALUES			
ALPHAB	5.033	MACH	4.970
ALPHAI	5.000	ORBPOW	0.000
BSTPOW			

REFERENCE FILE

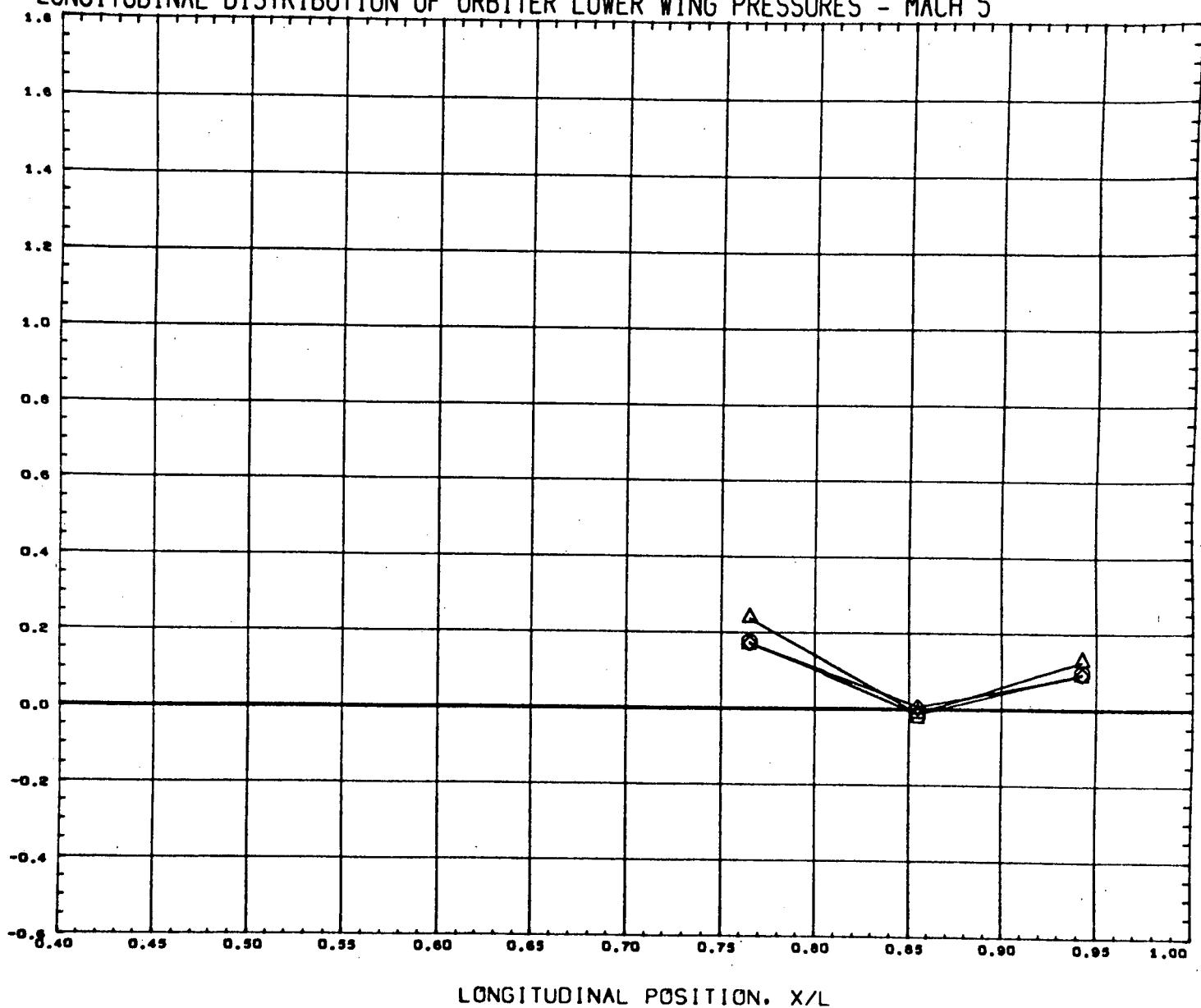
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8554•

PAGE 790

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL DELTAX T/B DELTAZ
Δ - 0.144 0.568 0.227
◊ 0.102 0.226

LONGITUDINAL POSITION. X/L

PARAMETRIC VALUES			
ALPHAB	5.033	MACH	4.970
ALPHAT	5.000	ORBPOW	0.000
BSTPOW	0.000		

REFERENCE FILE

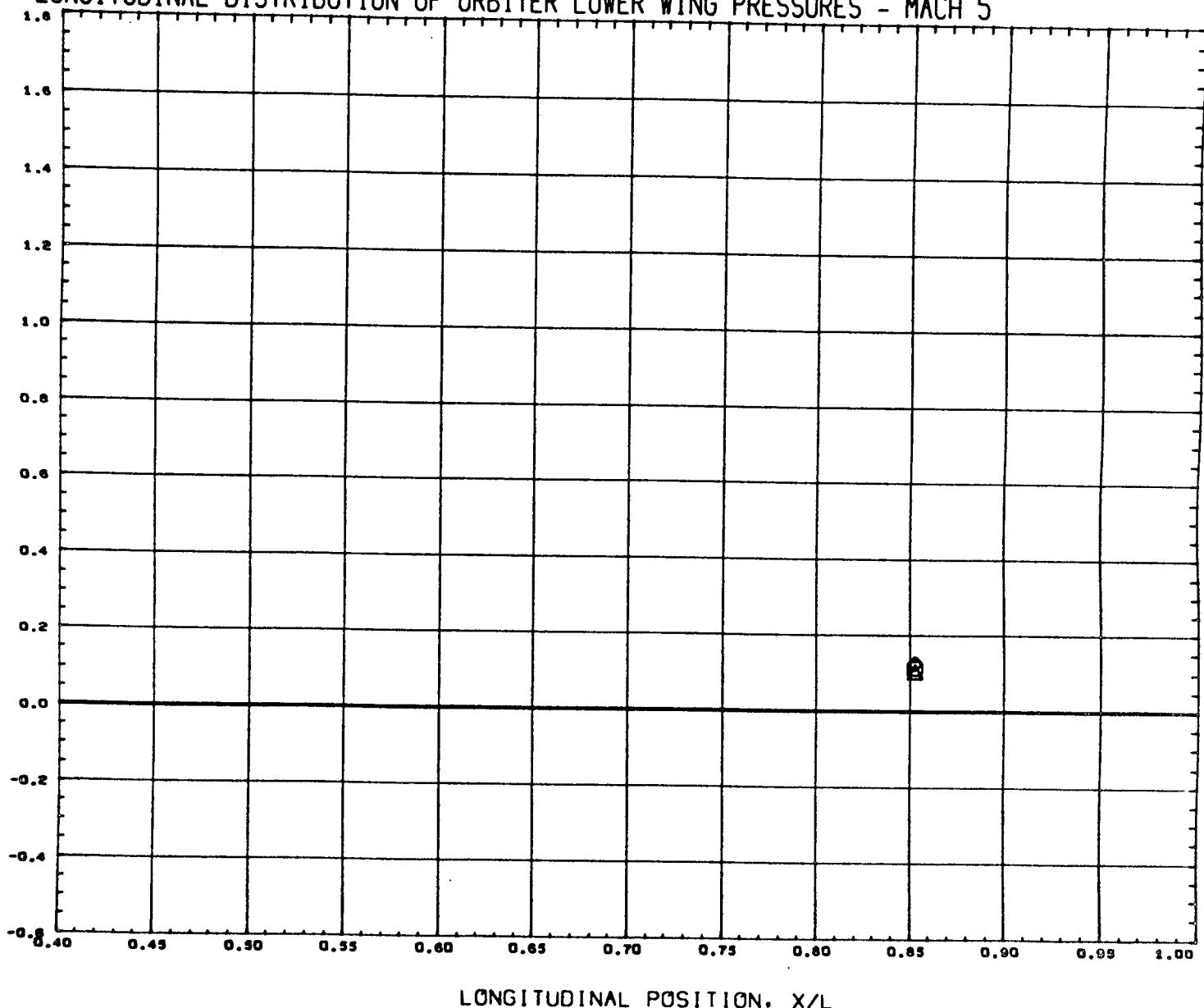
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8554•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
-	0.144	0.738	0.227
△	0.102		
◊	0.226		

PARAMETRIC VALUES		
ALPHAB	5.033	MACH
ALPHAI	5.000	ORBPOW
BSTPOW	0.000	

REFERENCE FILE

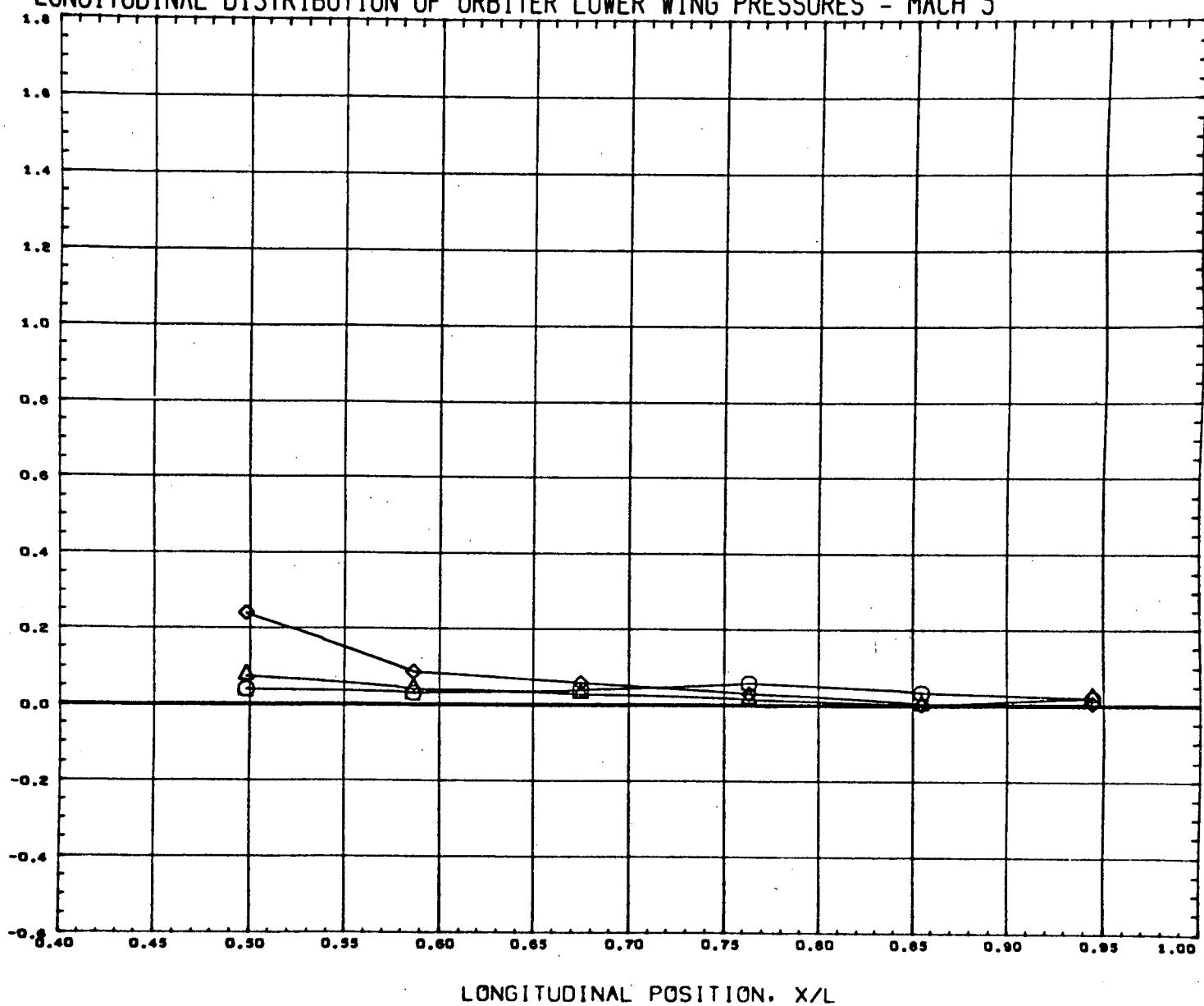
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8554•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION, X/L

SYMBOL DELTAX Y/B DELTAZ
 C - 0.143 0.230 0.120
 Δ 0.103
 D 0.226

PARAMETRIC VALUES
 ALPHAB = 4.935 MACH = 4.970
 ALPHAI = 0.000 ORBPOW = 100.000
 BSTPOW = 50.000

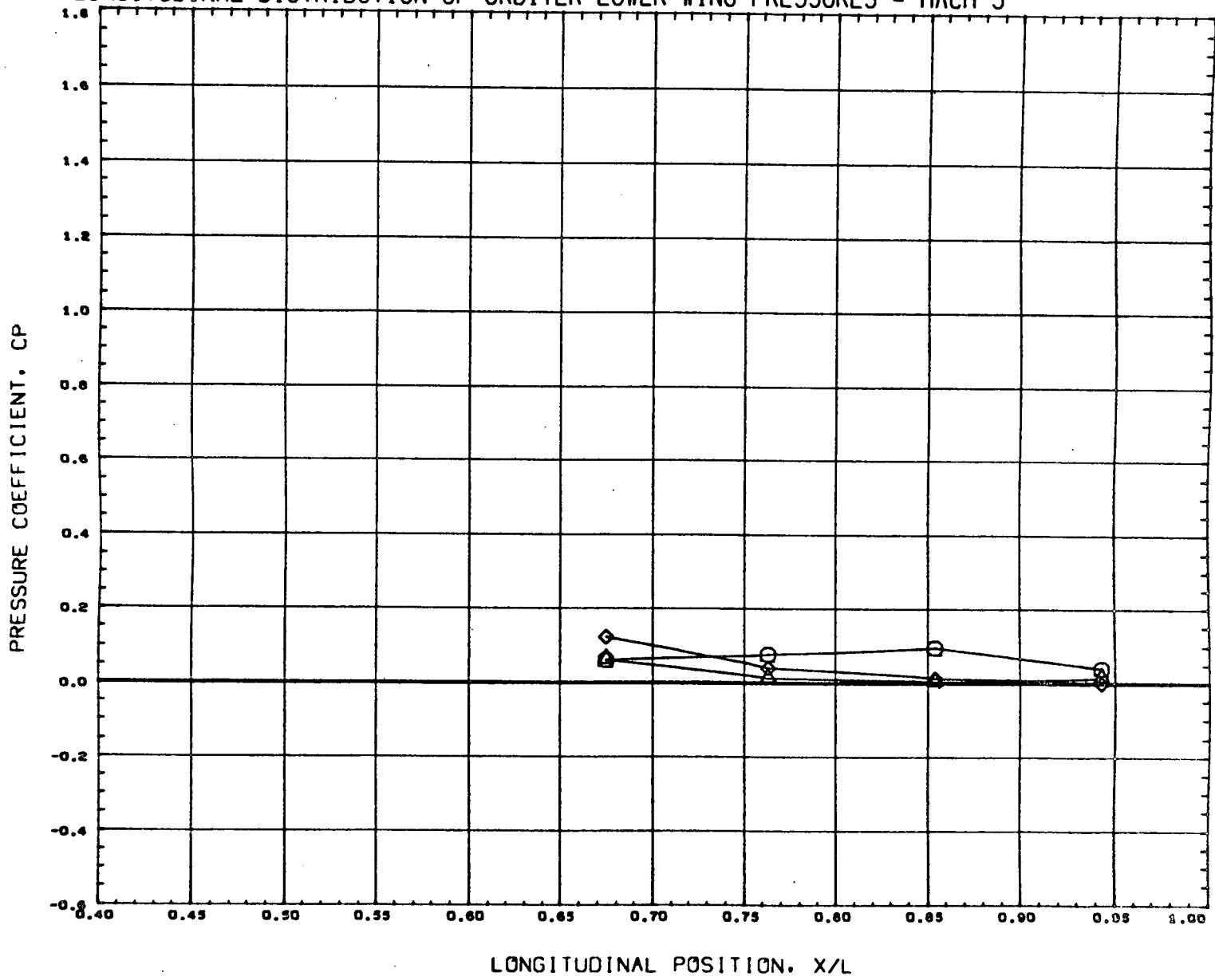
REFERENCE FILE

AECC VA1163 MDAC ORBITER (LOWER WING)

•HT8562•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL DELTAX T/B DELTAZ
 ◻ - 0.143 0.399 0.120
 △ 0.103
 ◇ 0.226

LONGITUDINAL POSITION. X/L

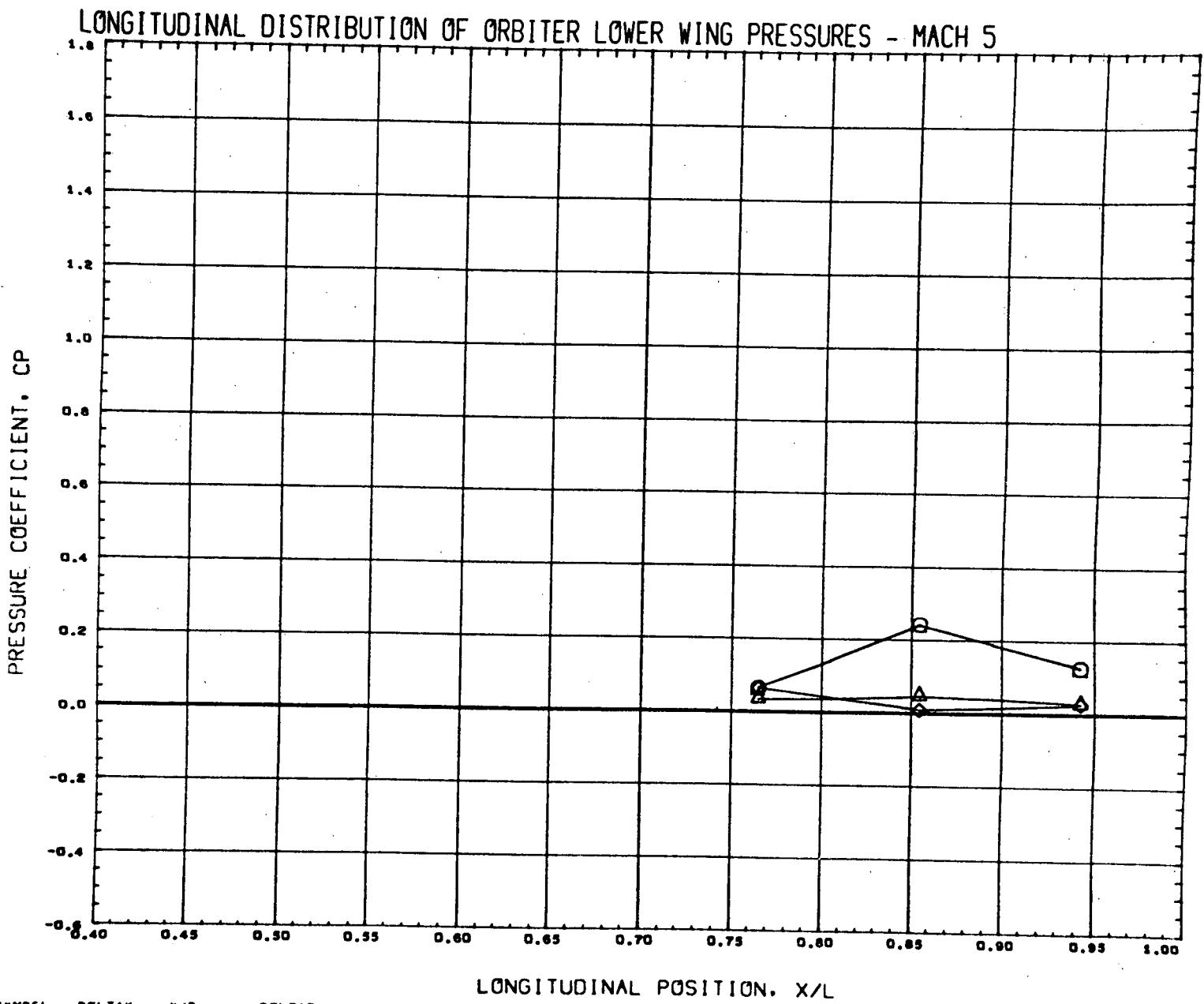
PARAMETRIC VALUES			
ALPHAB	- 4.935	MACH	4.970
ALPHAI	0.000	ORBPOW	100.000
BSTPOW	50.000		

REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

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PARAMETRIC VALUES			
ALPHAB	- 4.935	MACH	4.970
ALPHAI	0.000	ORBPOW	100.000
BSTPOW	50.000		

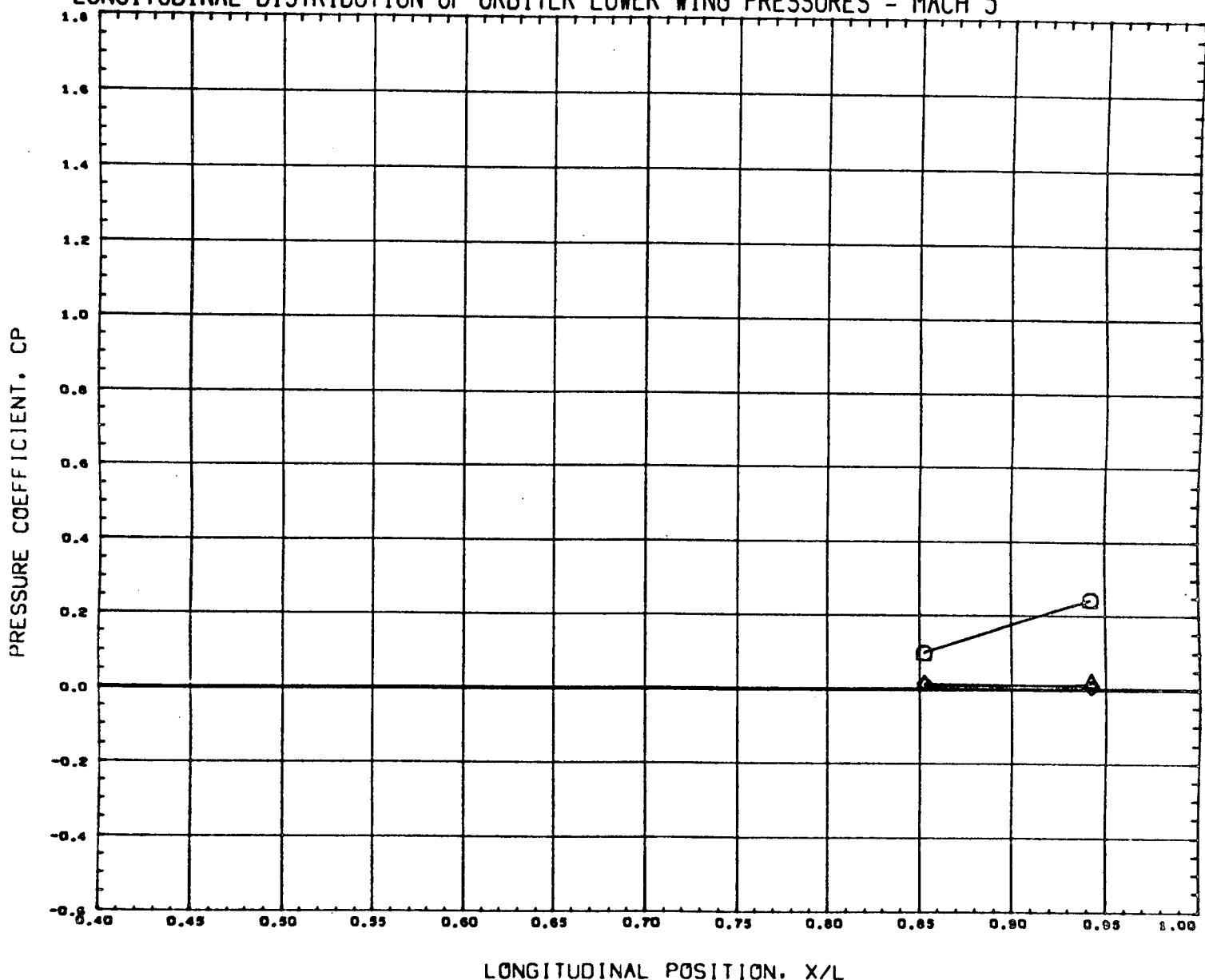
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AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8562•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	T/E	DELTA Z
-	0.143	0.730	0.120
△	0.103		
◊	0.226		

PARAMETRIC VALUES			
ALPHAB	-	4.935	
ALPHAI	0.000	MACH	4.970
BSTPOW	50.000	ORBPOW	100.000

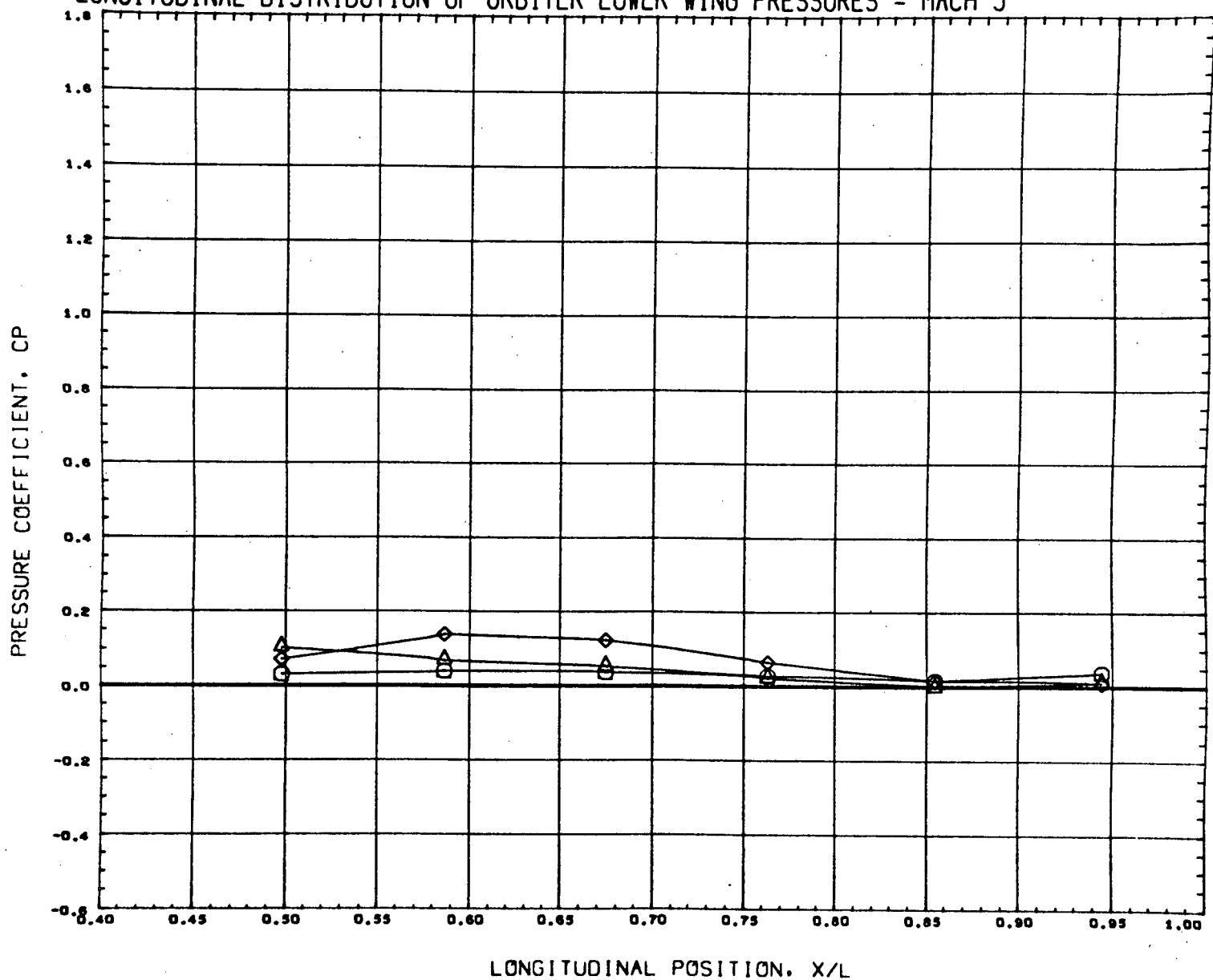
REFERENCE FILE

AEDC VA1163 MCAC ORBITER (LOWER WING)

•HT8562•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL DELTAX Y/B DELTAZ

C - 0.144 0.230 0.151

Δ 0.103

◊ 0.226

PARAMETRIC VALUES

ALPHAB	- 4.935	MACH	4.970
ALPHAI	0.000	ORBPOW	100.000
BSTPOW	50.000		

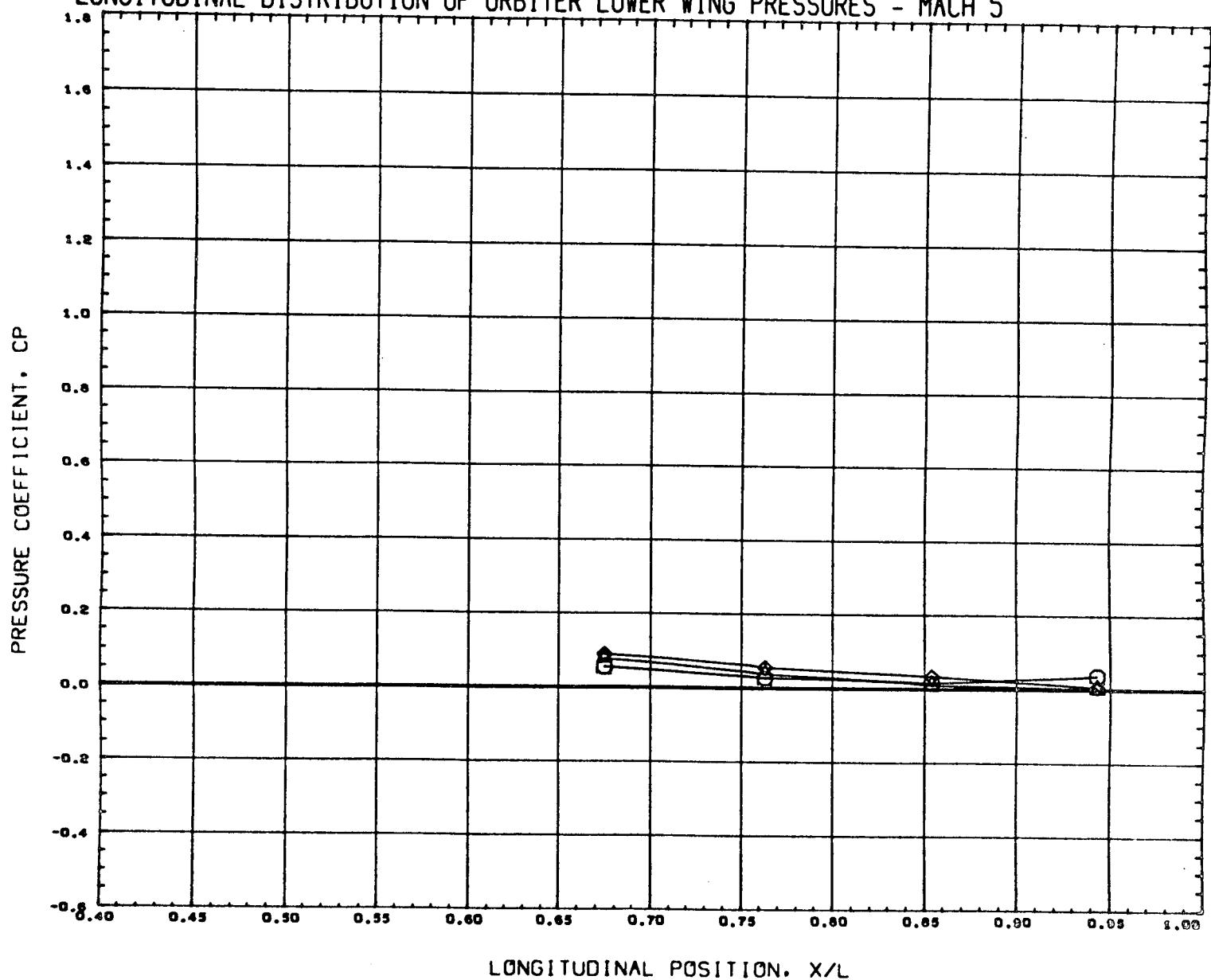
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8562•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL DELTAX T/B DELTAZ
 Δ - 0.144 0.399 0.191
 ◇ 0.103
 ◊ 0.226

PARAMETRIC VALUES
 ALPHAB = 4.935 MACH = 4.970
 ALPHAI = 0.000 ORBPOW = 100.000
 BSTPOW = 50.000

REFERENCE FILE

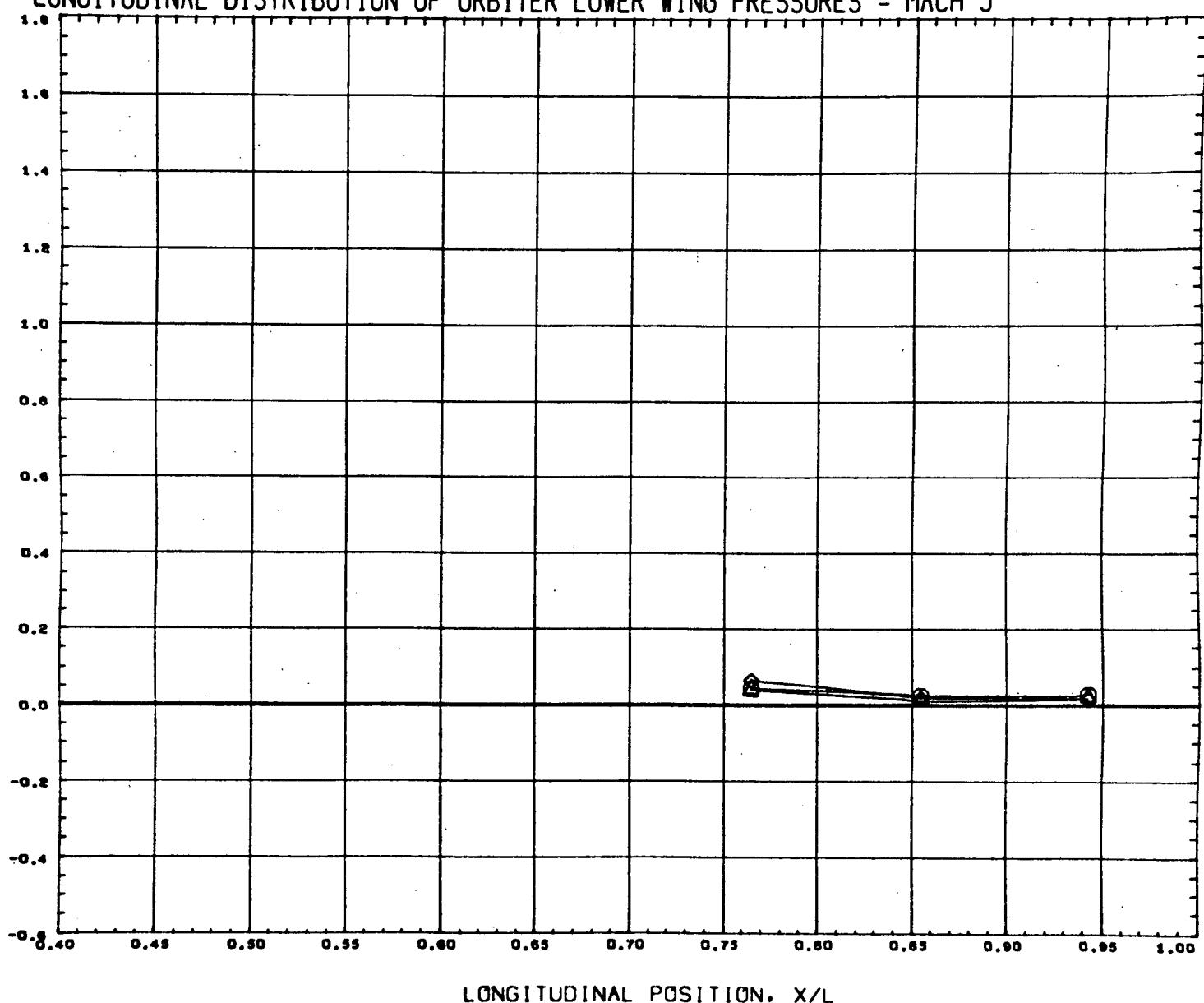
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8562•

PAGE 798

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



LONGITUDINAL POSITION. X/L

SYMBOL	DELTA X	Y/B	DELTA Z
-	0.144	0.969	0.151
△	0.103		
◊	0.226		

PARAMETRIC VALUES			
ALPHAB	- 4.935	MACH	4.970
ALPHAI	0.000	ORBPOW	100.000
BSTPOW	50.000		

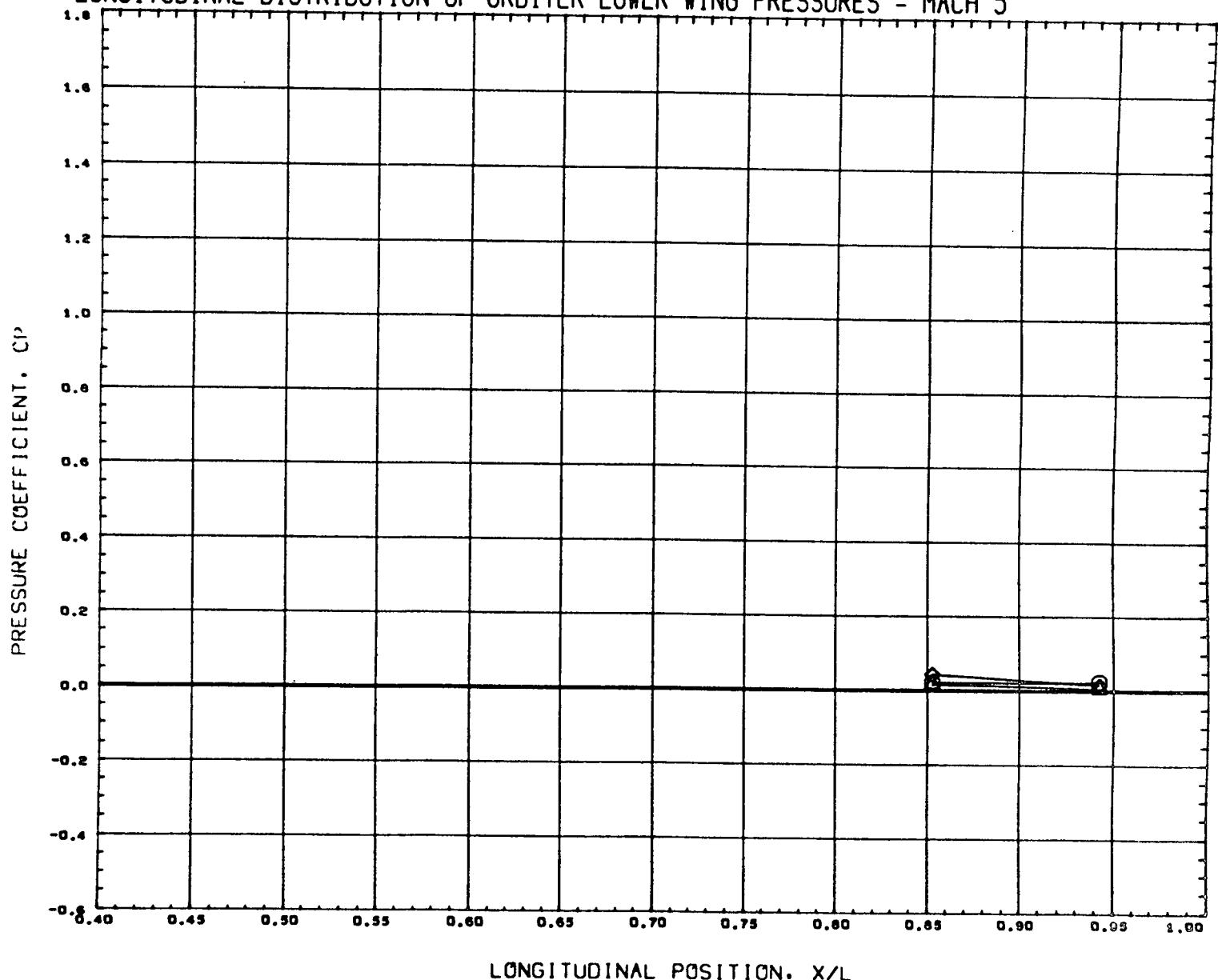
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AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8562•

PAGE 799

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTAX	Y/B	DELTAZ
\square	-0.144	0.739	0.151
Δ	0.103		
\diamond	0.226		

PARAMETRIC VALUES			
ALPHAB	-4.935	MACH	4.970
ALPHAT	0.000	ORBPOW	100.000
BSTPOW	50.000		

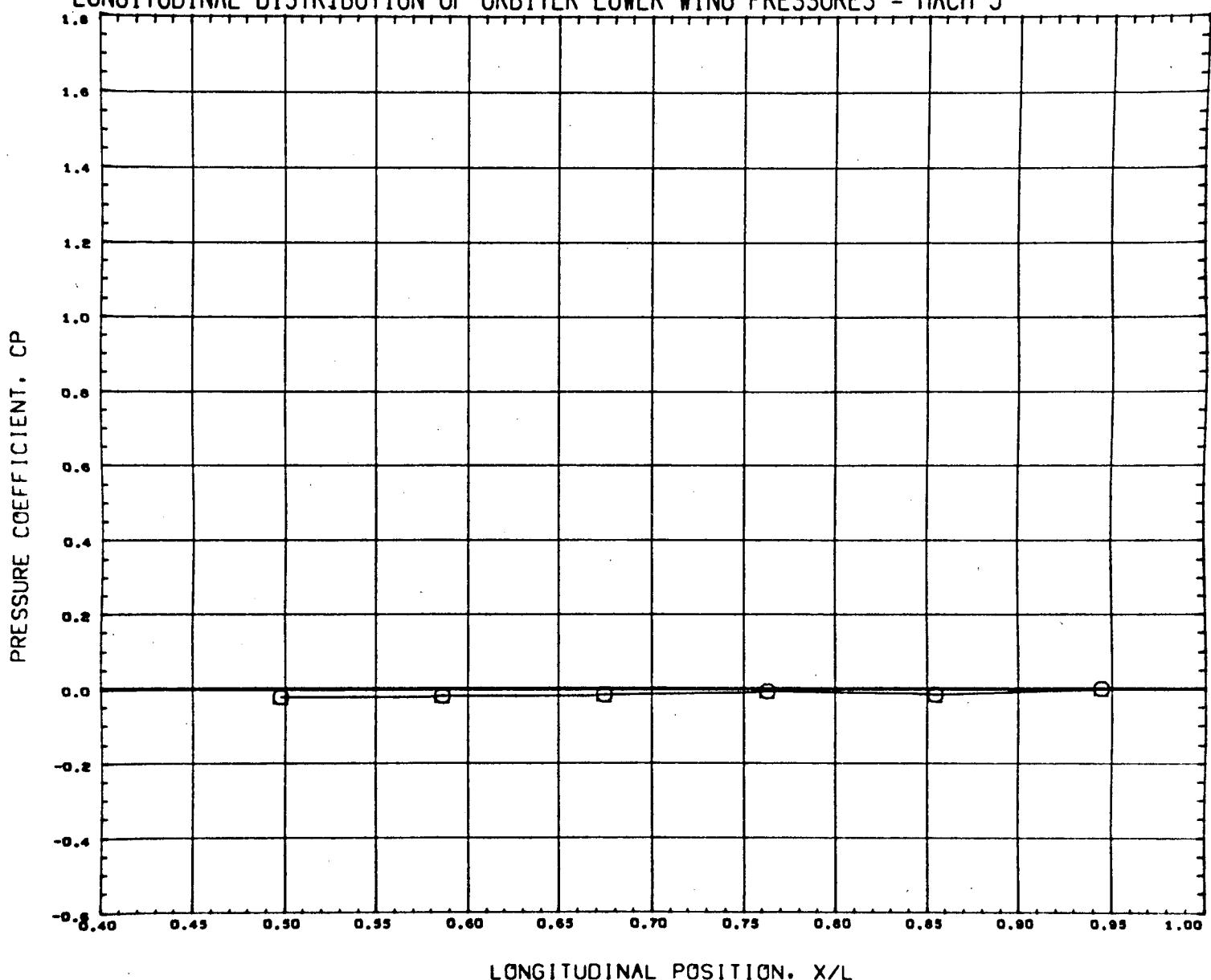
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AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8562•

PAGE 800

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



REFERENCE FILE

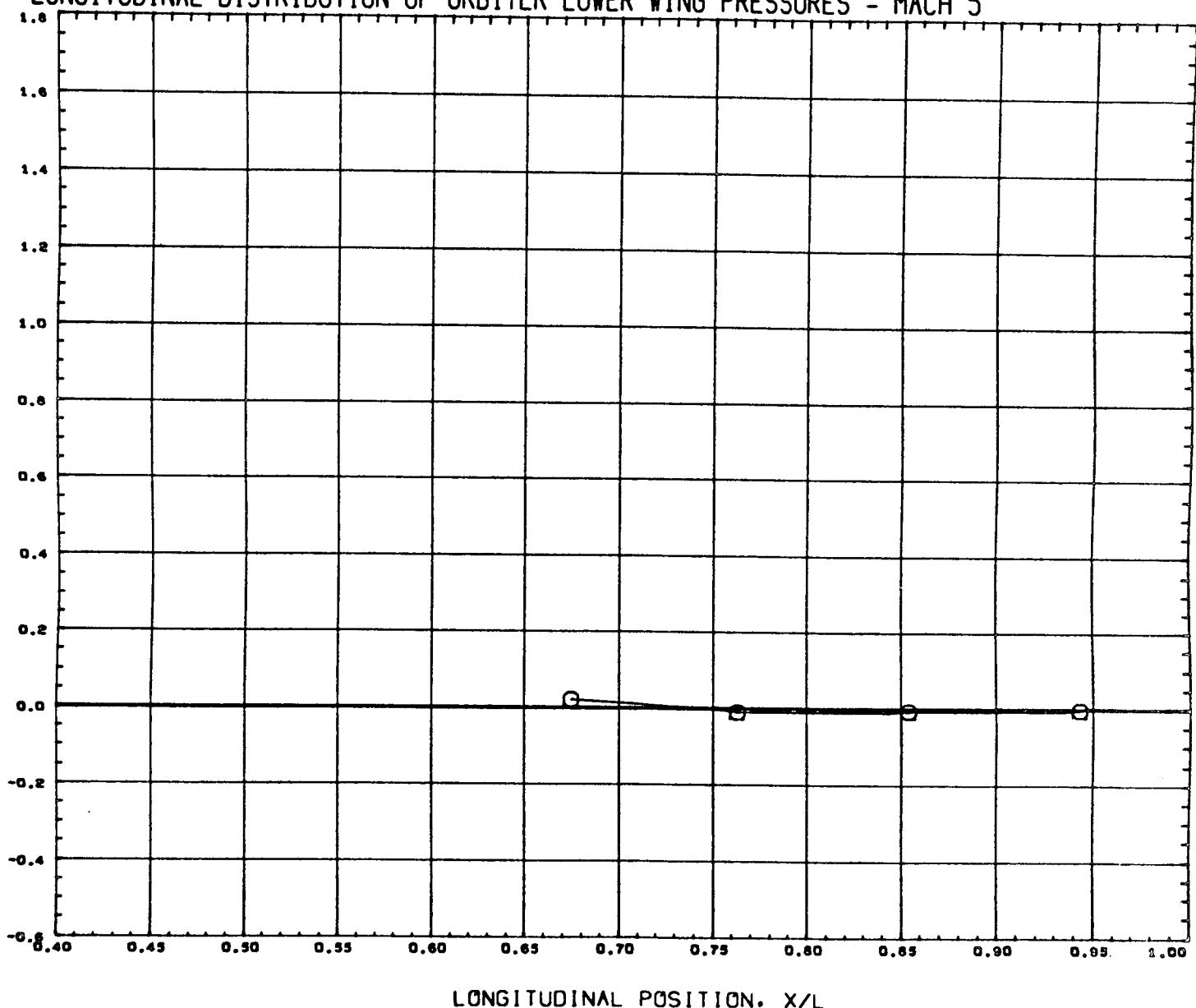
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8562•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



LONGITUDINAL POSITION. X/L

SYMBOL DELTAX Y/B DELTAZ

C 0.520 0.399 0.908

PARAMETRIC VALUES		
ALPHAB	- 4.935	MACH 4.970
ALPHAT	0.000	ORBPOW 100,000
BSTPOW	50,000	

REFERENCE FILE

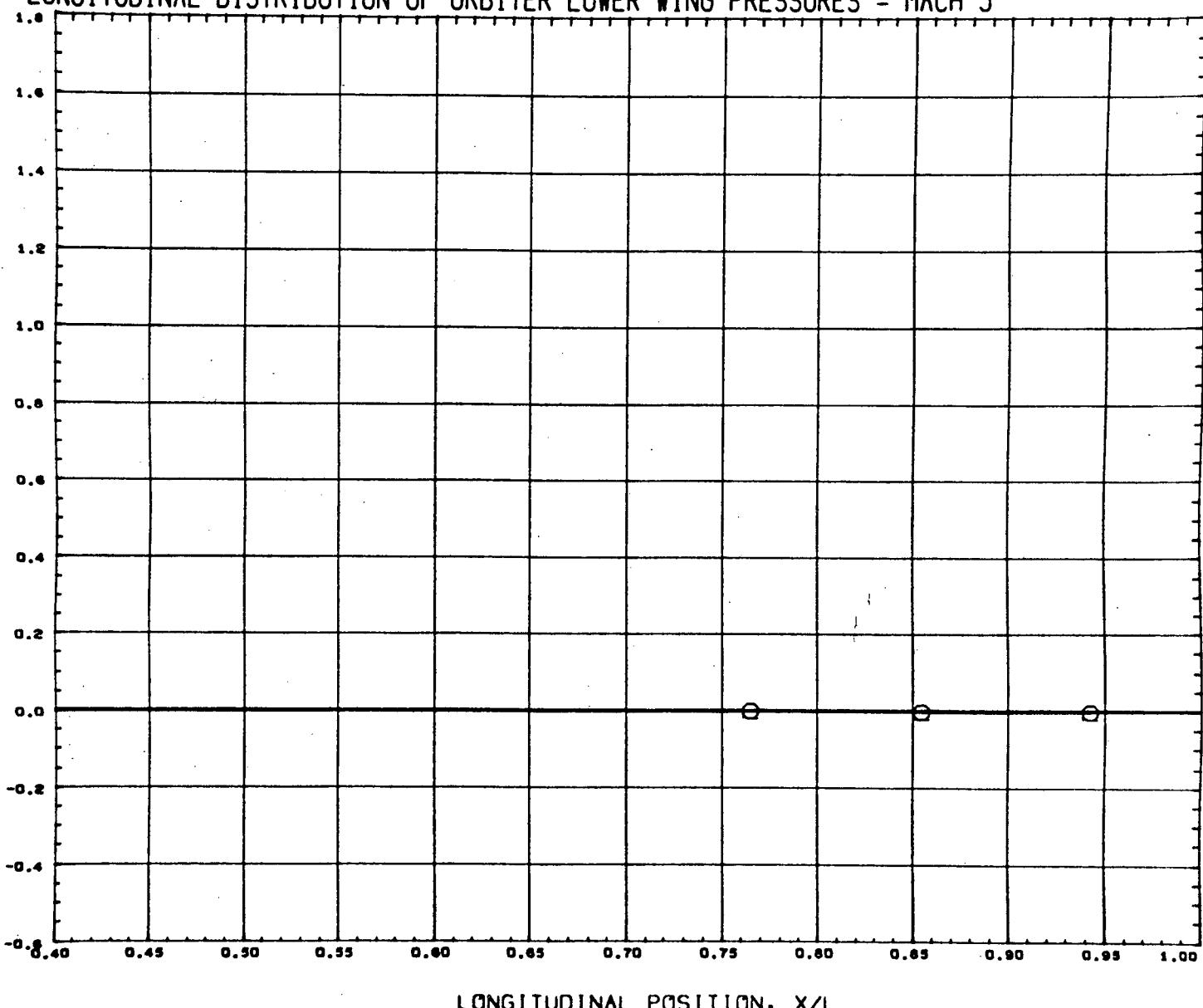
AEDC VAI163 MDAC ORBITER (LOWER WING)

•HT8562•

PAGE 802

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMOL DELTAX Y/B DELTAZ
C 0.529 0.568 0.906

ALPHAB	- 4.935	MACH	4.970
ALPHAI	0.000	ORBPOW	100.000
BSTPOW	50.000		

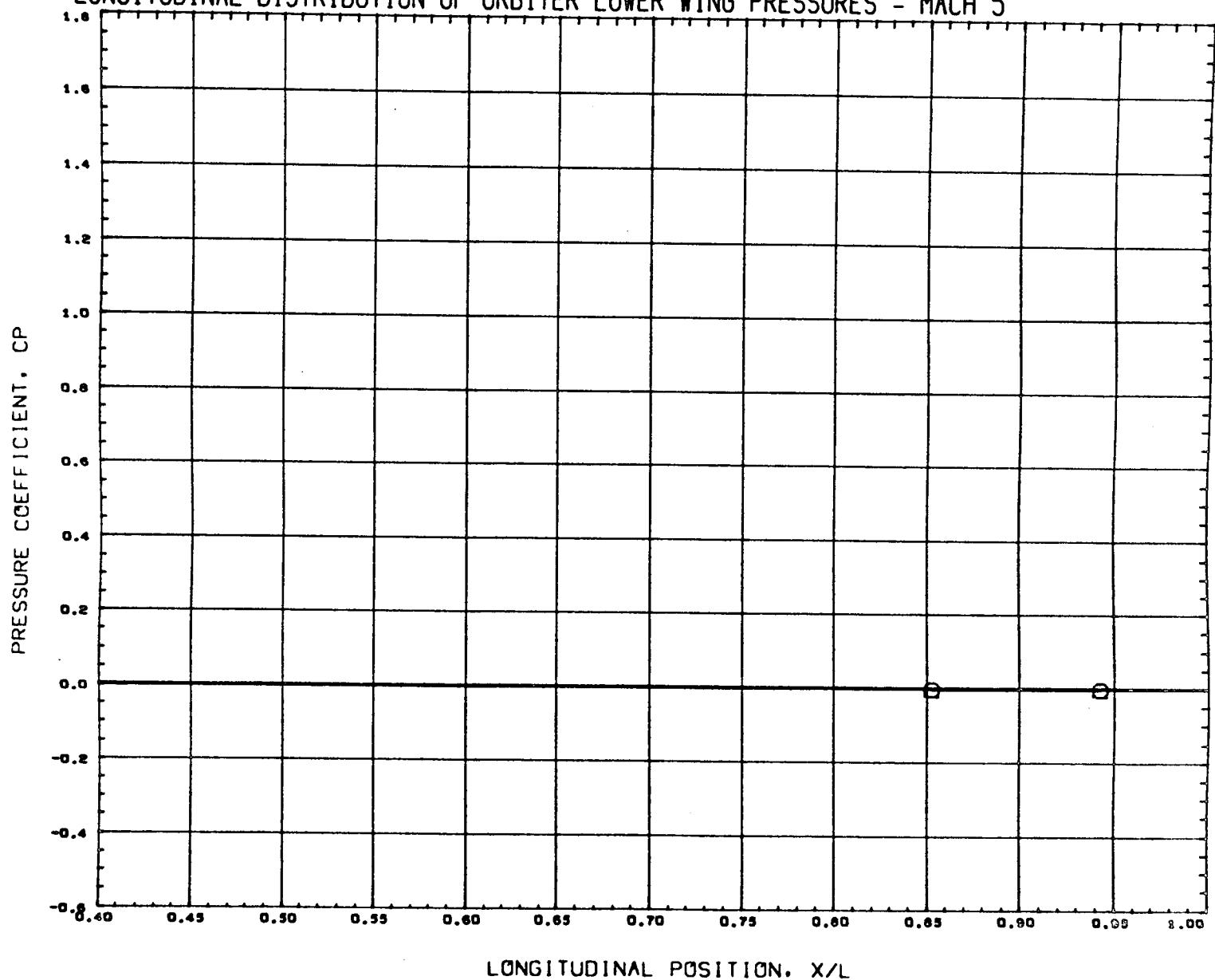
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8562•

PAGE 803

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMOL DELTAX Y/B DELTAZ
C 0.520 0.738 0.908

PARAMETRIC VALUES			
ALPHAB	- 4.935	MACH	4.970
ALPHAI	0.000	ORBPOW	100.000
BSTPOW	50.000		

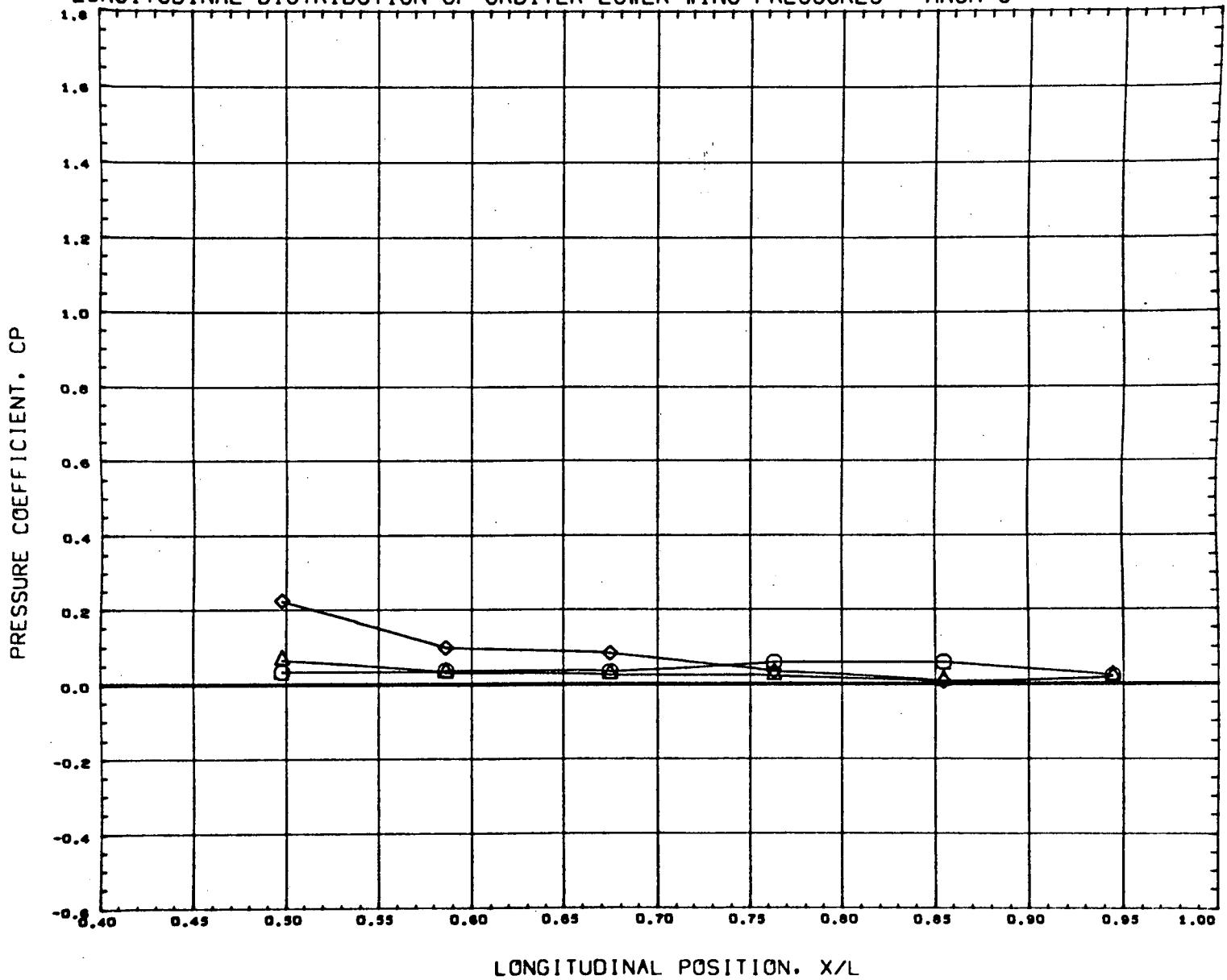
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8562•

PAGE 804

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL DELTAX Y/B DELTAZ
 C - 0.143 0.230 0.120
 Δ 0.103
 D 0.226

PARAMETRIC VALUES
 ALPHAB 0.002 MACH 4.970
 ALPHAT 0.000 ORBPOW 100.000
 BSTPOW 50.000

REFERENCE FILE

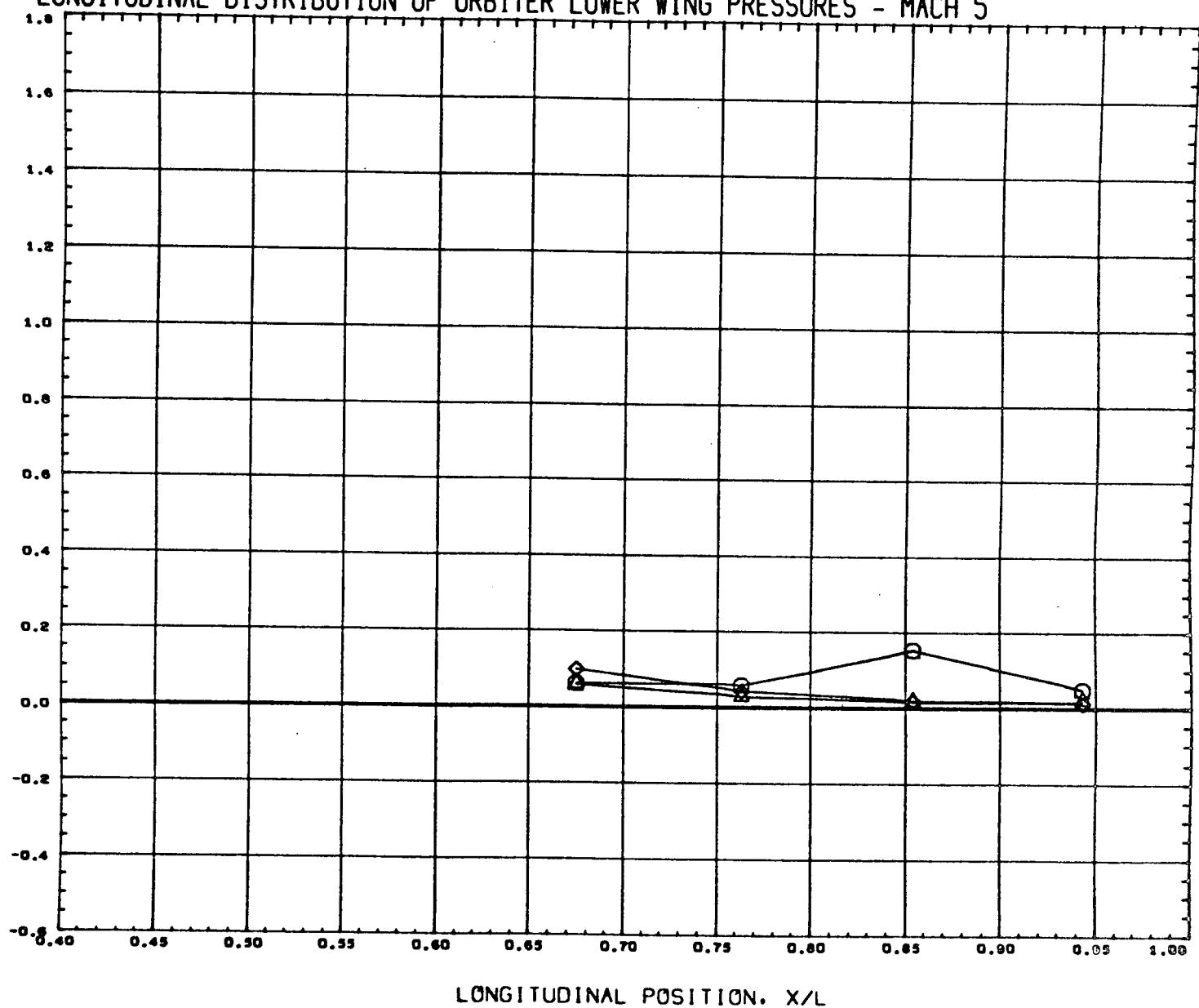
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8563•

PAGE 805

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



LONGITUDINAL POSITION. X/L

SYMBOL	DELTA X	Y/B	DELTA Z
-	0.163	0.399	0.120
X	0.193		
Diamond	0.226		

PARAMETRIC VALUES			
ALPHAB	0.002	MACH	4.970
ALPHAI	0.000	ORBPOW	100.000
BSTPOW	50.000		

REFERENCE FILE

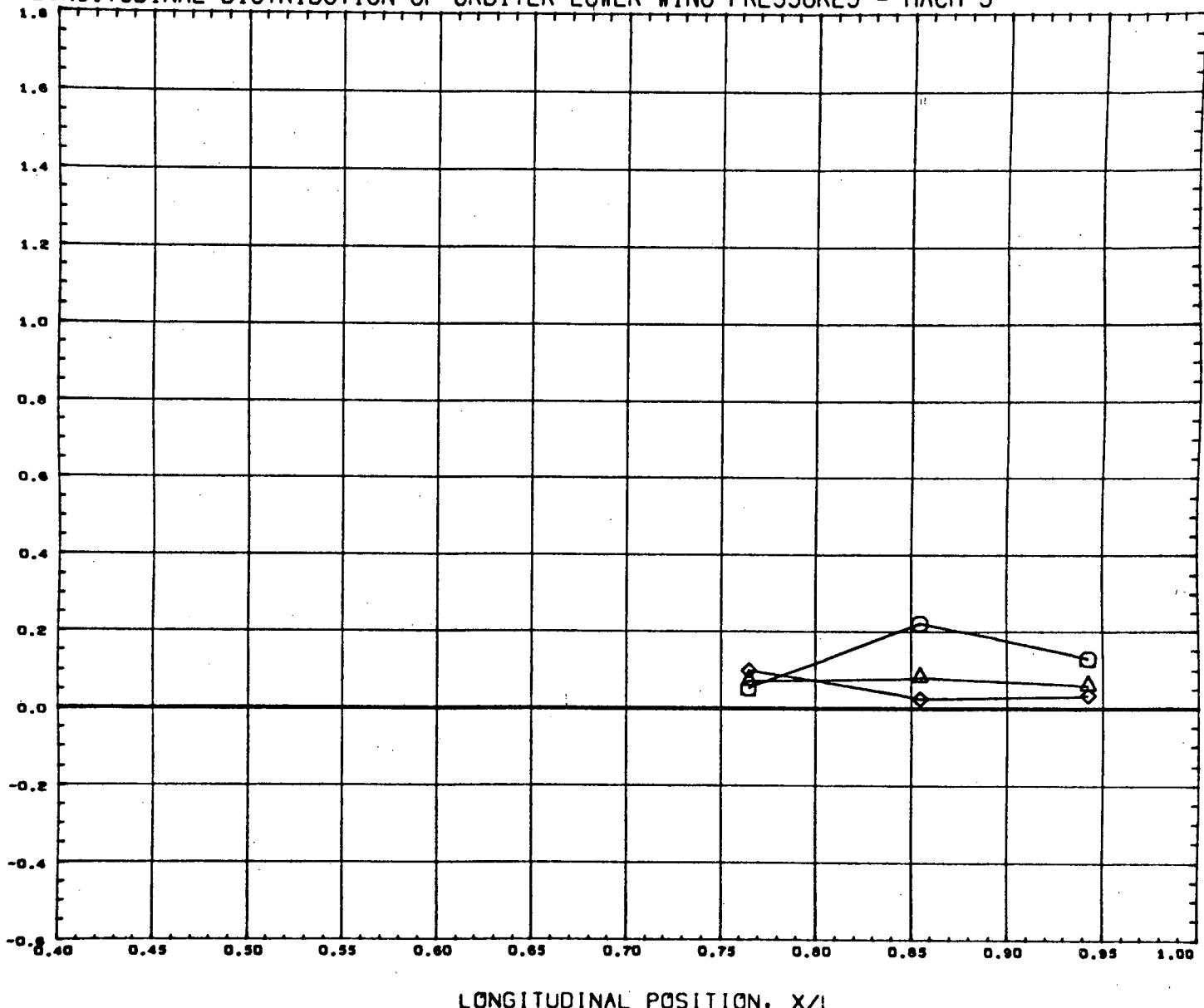
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8563•

PAGE 806

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	T/B	DELTA Z
C	- 0.143	0.568	0.120
Δ	0.103		
◊	0.226		

PARAMETRIC VALUES			
ALPHAB	0.002	MACH	4.970
ALPHAI	0.000	ORBPOW	100.000
BSTPOW	50.000		

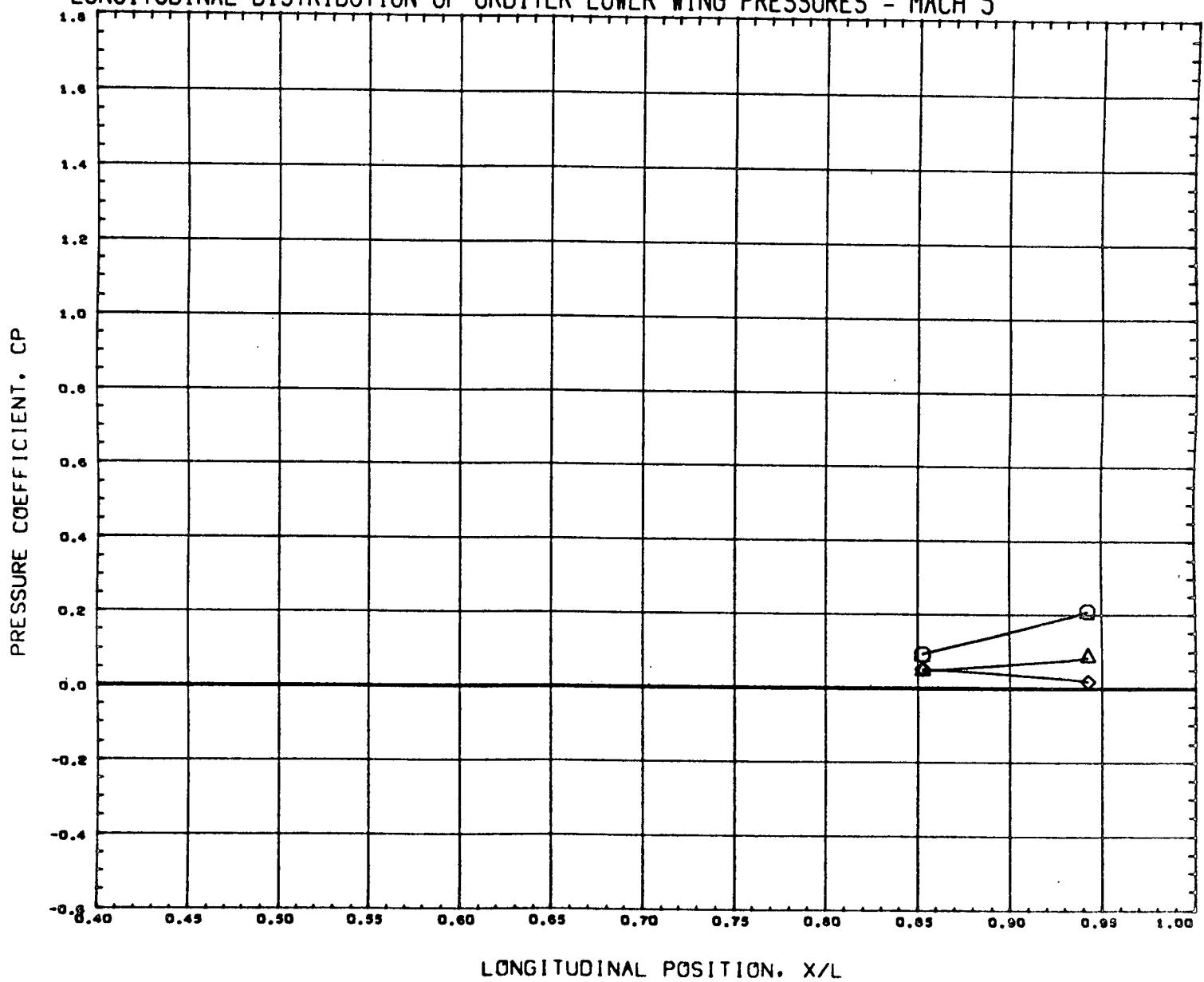
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8563•

PAGE 807

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL DELTAX Y/B DELTAZ

○ -0.143 0.738 0.120

△ 0.103

◊ 0.226

PARAMETRIC VALUES

ALPHAB	0.002	MACH	4.970
ALPHAI	0.000	ORBPOW	100.000
BSTPOW	50.000		

LONGITUDINAL POSITION. X/L

REFERENCE FILE

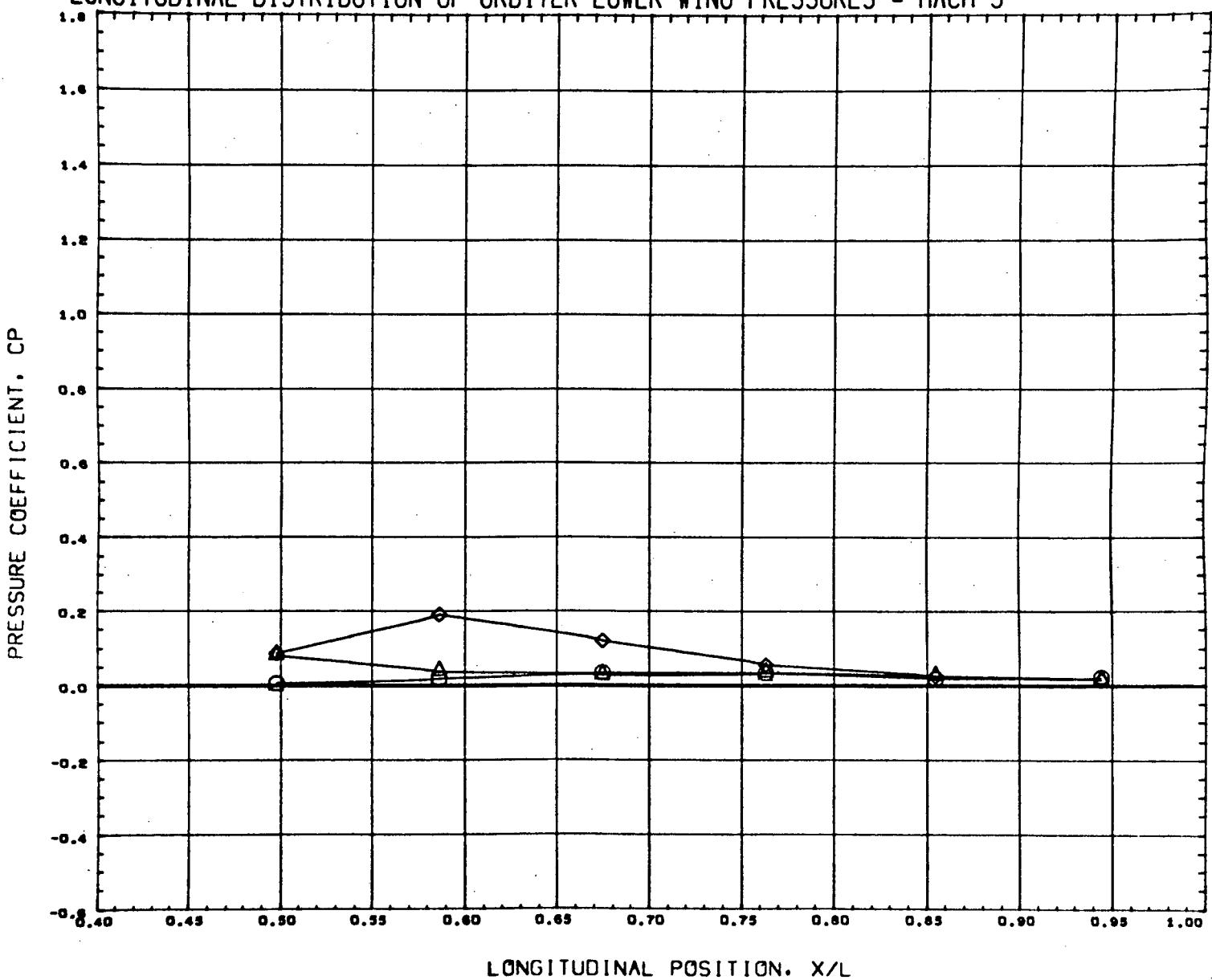
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8563•

PAGE 808

C.7

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL DELTAX Y/B DELTAZ

Δ - 0.144 0.230 0.151

Δ 0.103 0.103 0.103

◊ 0.226 0.226 0.226

PARAMETRIC VALUES

	ALPHAB	MACH	ORBPOW
ALPHAB	0.002	4.970	
ALPHAI	0.000		100.000
BSTPOW	90.000		

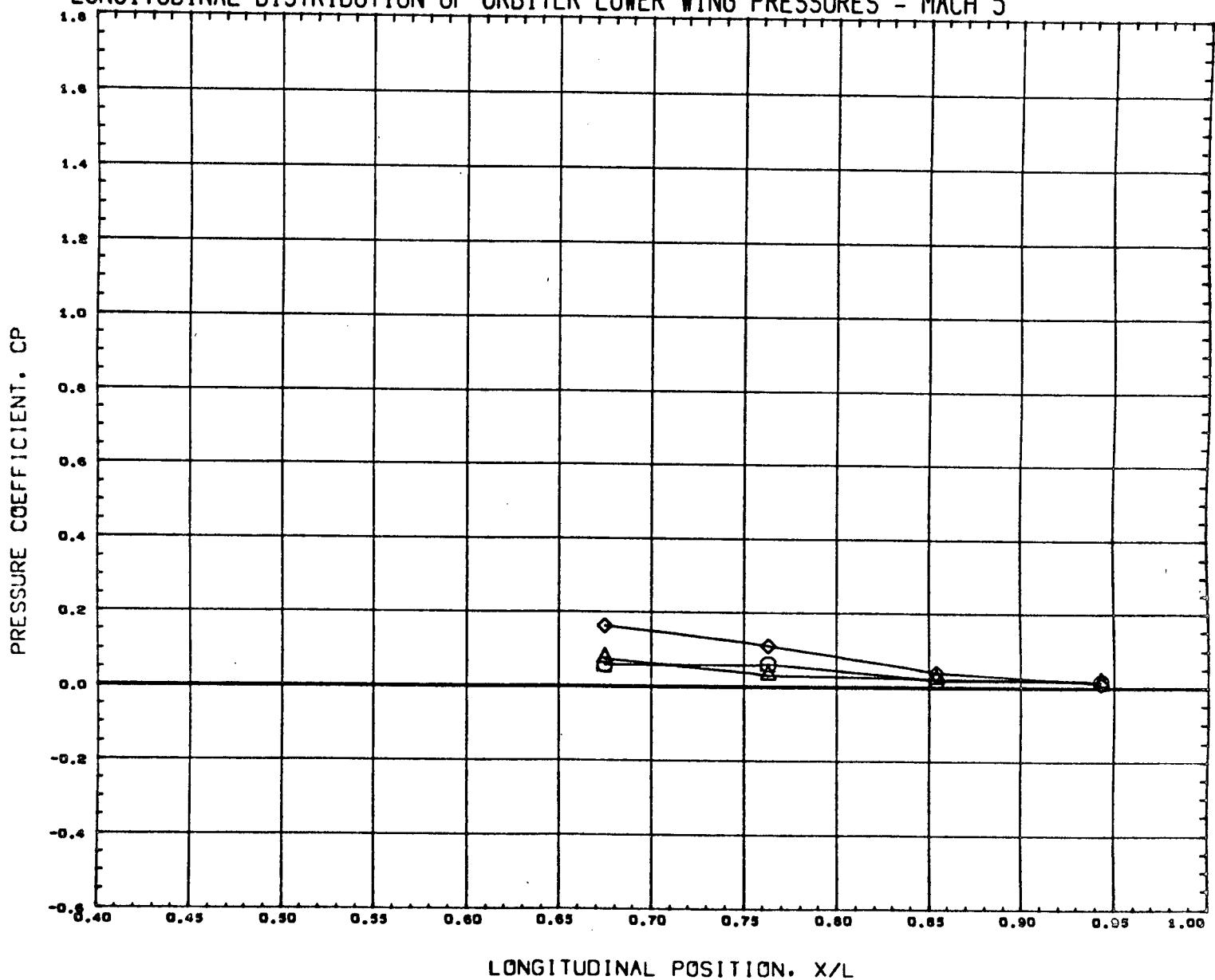
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8563•

PAGE 809

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL DELTAX Y/B DELTAZ
△ - 0.144 0.399 0.191
○ 0.103
◊ 0.226

PARAMETRIC VALUES
 ALPHAB 0.002 MACH 4.970
 ALPHAI 0.000 ORBPOW 100.000
 BSTPOW 50.000

REFERENCE FILE

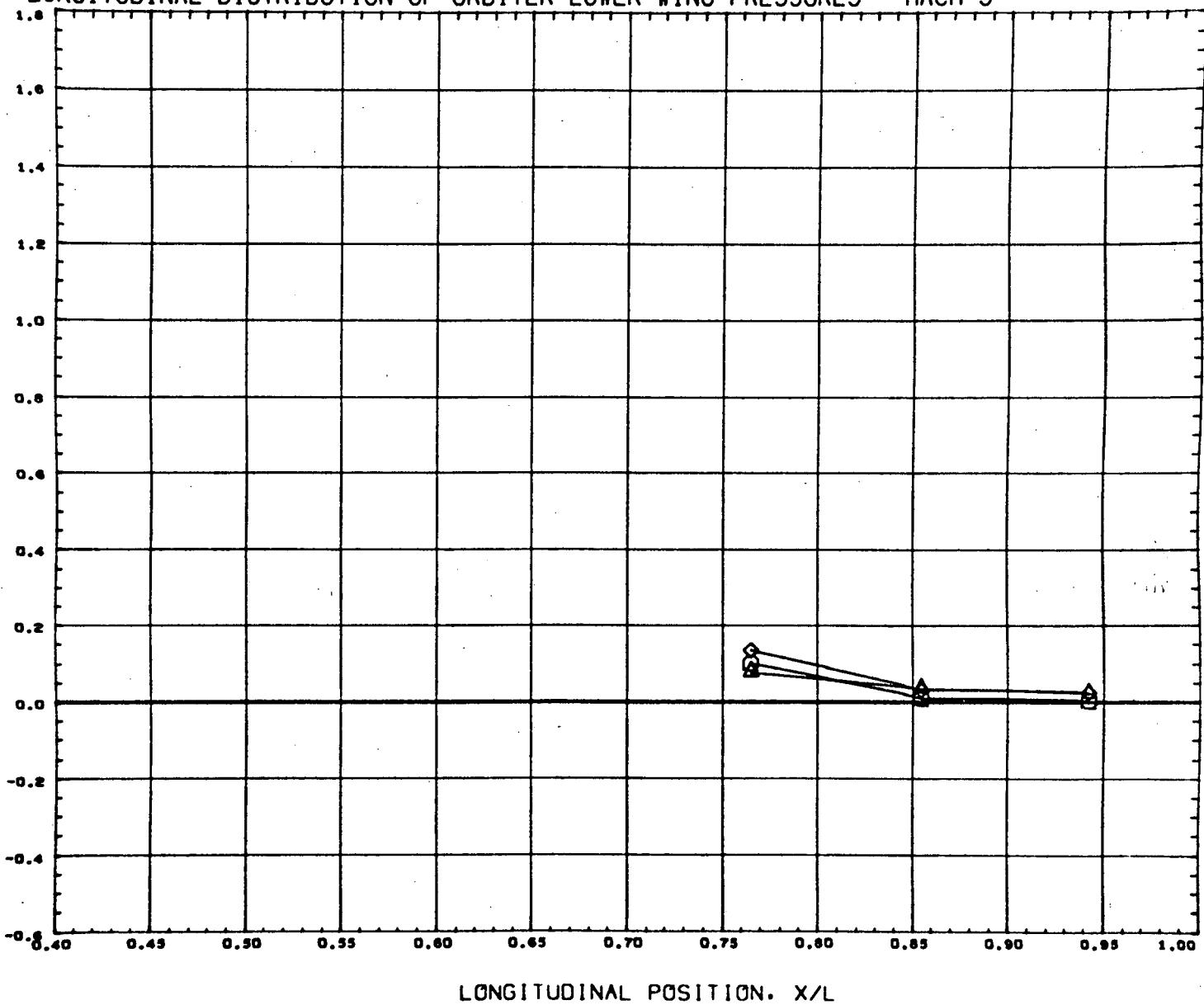
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8563•

PAGE 810

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL DELTAX Y/B DELTAZ
 C - 0.144 0.569 0.191
 Δ 0.103 0.103 0.226
 D 0.000 0.000 0.000

LONGITUDINAL POSITION, X/L

ALPHAB	0.002	MACH	4.970
ALPHAI	0.000	ORBPOW	100.000
BSTPOW	50.000		

REFERENCE FILE

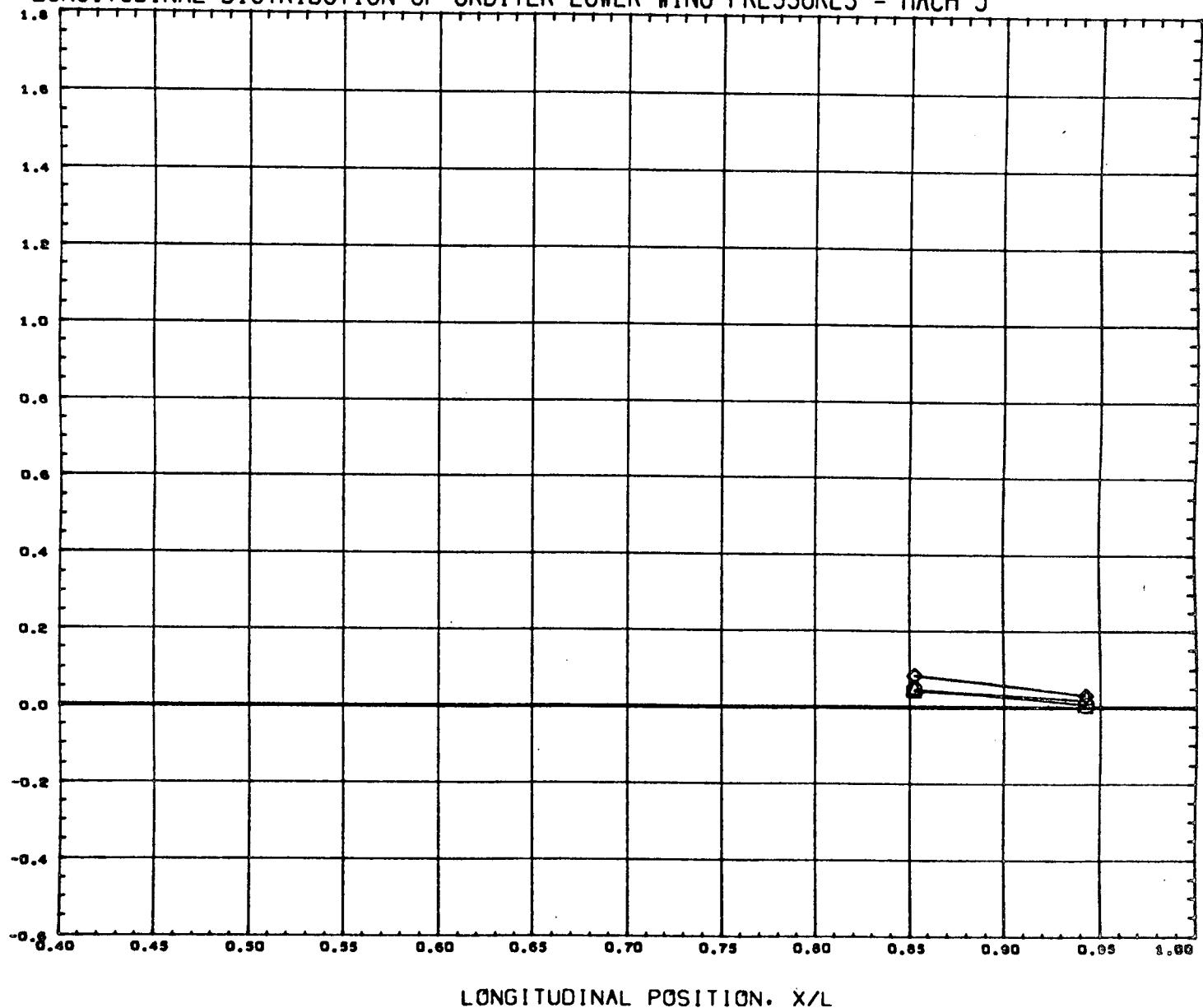
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8563•

PAGE 811

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	T/B	DELTA Z
▲	- 0.144	0.738	0.151
□	0.103		
◇	0.226		

PARAMETRIC VALUES		
ALPHAB	0.002	MACH 4.970
ALPHAI	0.000	ORBPOW 200,000
BSTPOW	50,000	

REFERENCE FILE

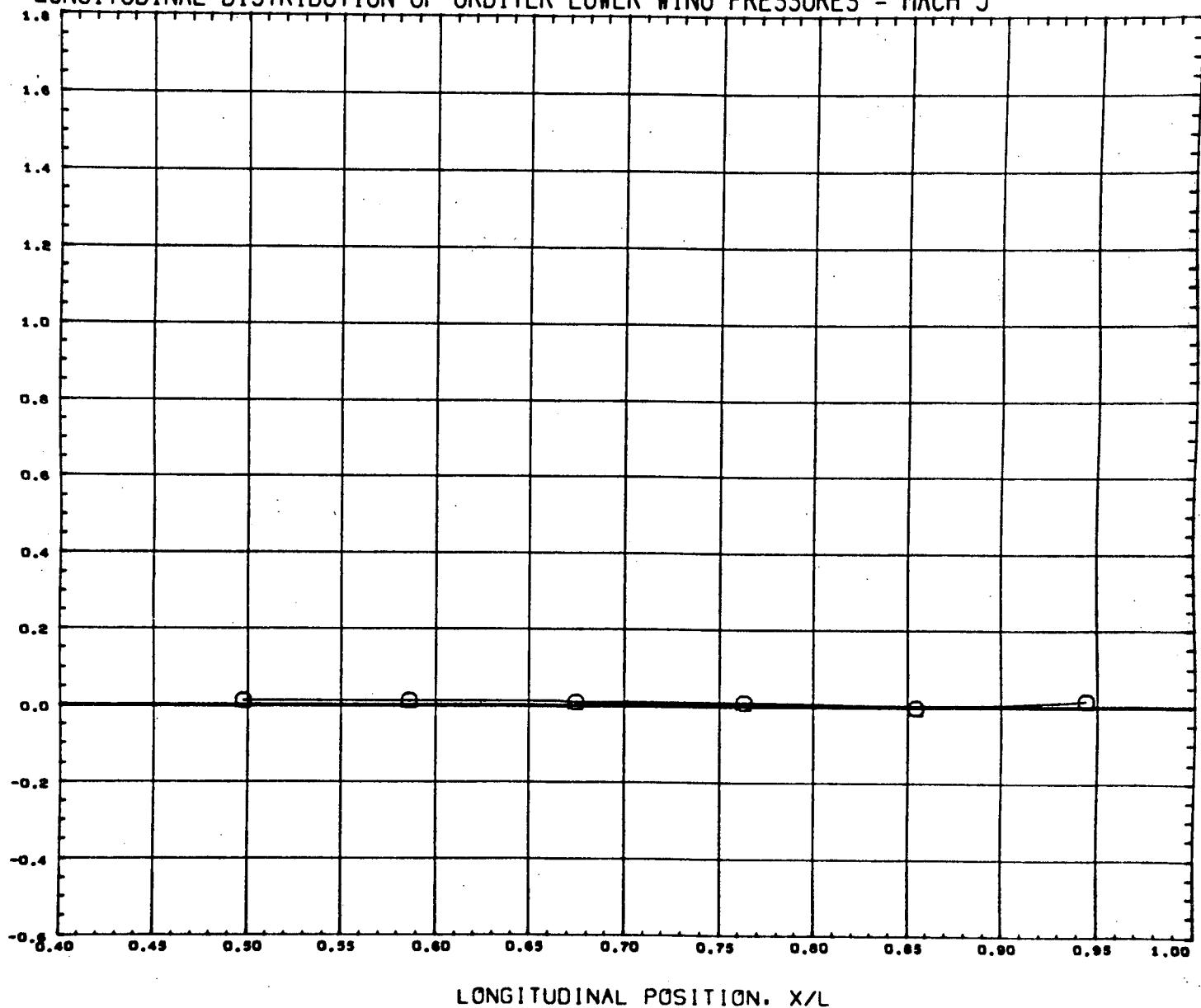
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8563•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION, X/L

SYMBOL DELTAX T/B DELTAZ
○ 0.520 0.230 0.908

PARAMETRIC VALUES		
ALPHAB	0.002	MACH 4.970
ALPHAI	0.000	ORBPOW 100.000
BSTPOW	90.000	

REFERENCE FILE

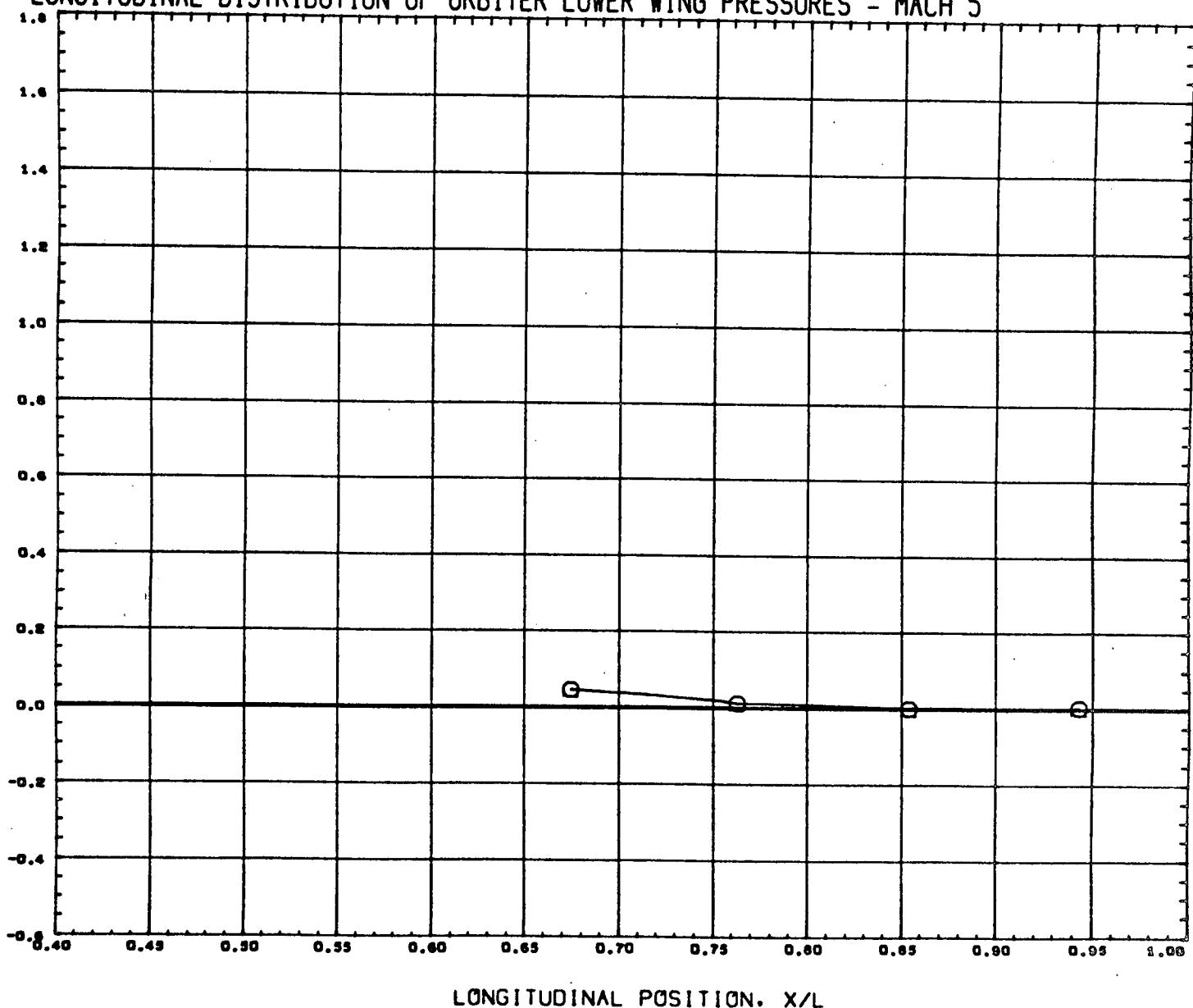
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8563•

PAGE 813

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



SYMBOL DELTAX Y/B DELTAZ
 C 0.520 0.399 0.908

PARAMETRIC VALUES
 ALPHAB 0.002 MACH 4.970
 ALPHAI 0.000 ORBPOW 100.000
 BSTPOW 50.000

REFERENCE FILE

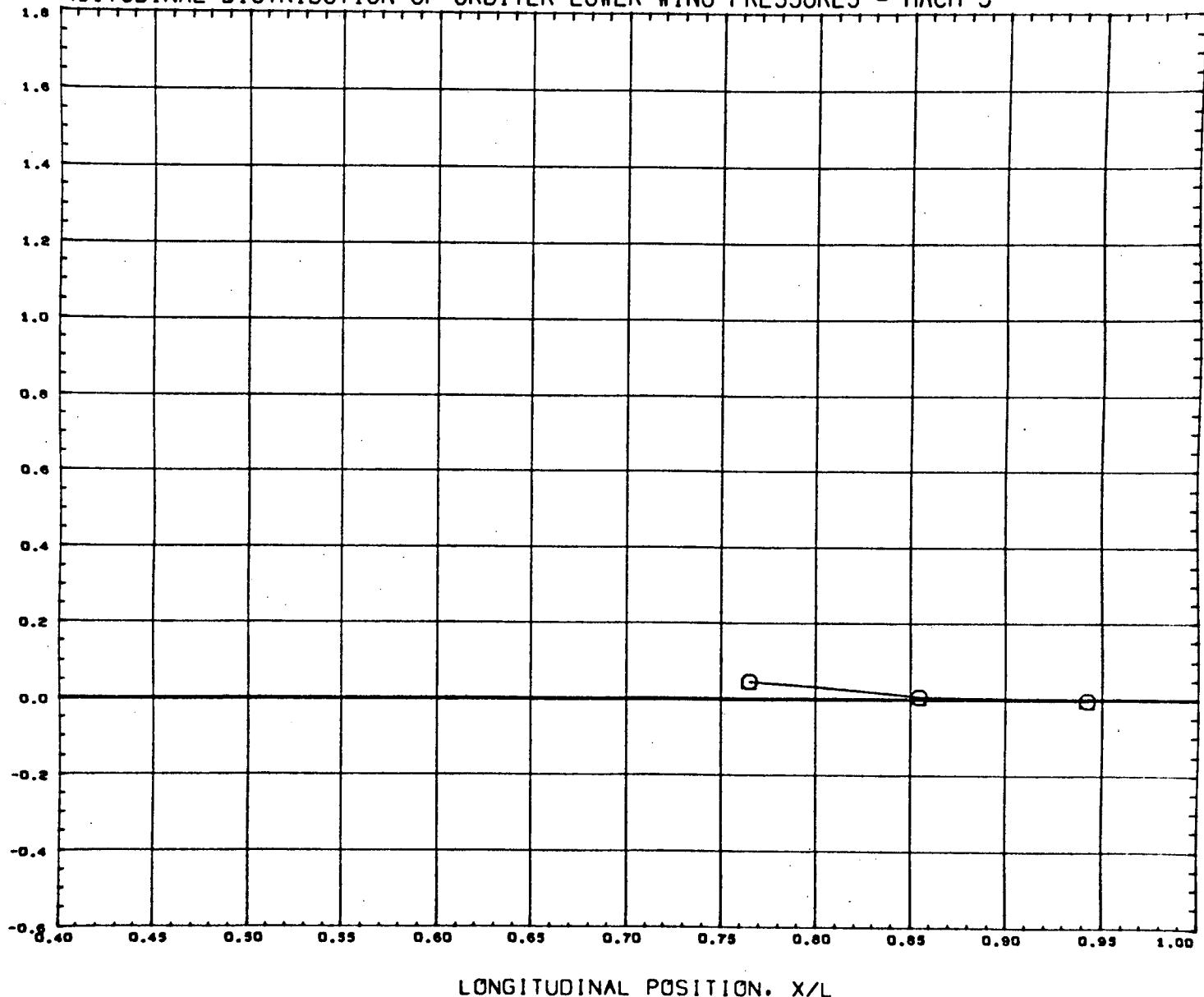
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8563•

PAGE 814

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL DELTAX Y/B DELTAZ
 \odot 0.920 0.368 0.908

	ALPHAB	MACH	4.970
	ALPHAI	ORBPOW	100.000
	BSTPOW		50.000

REFERENCE FILE

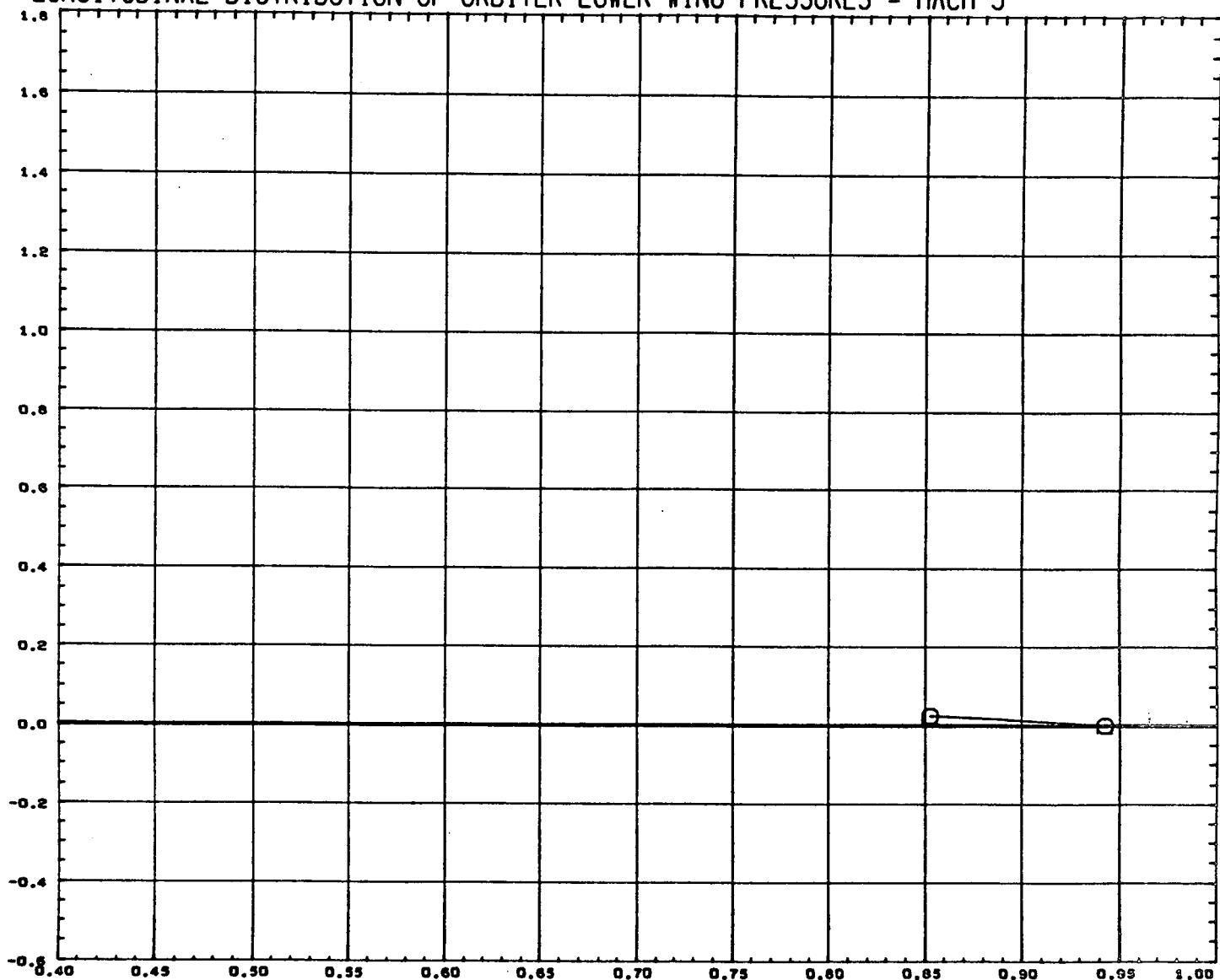
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8563•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL DELTAX Y/Z DELTAZ
C 0.320 0.738 0.909

	ALPHAB	MACH	4.970
ALPHAI	0.000	ORBPOW	100.000
BSTPOW	30.000		

REFERENCE FILE

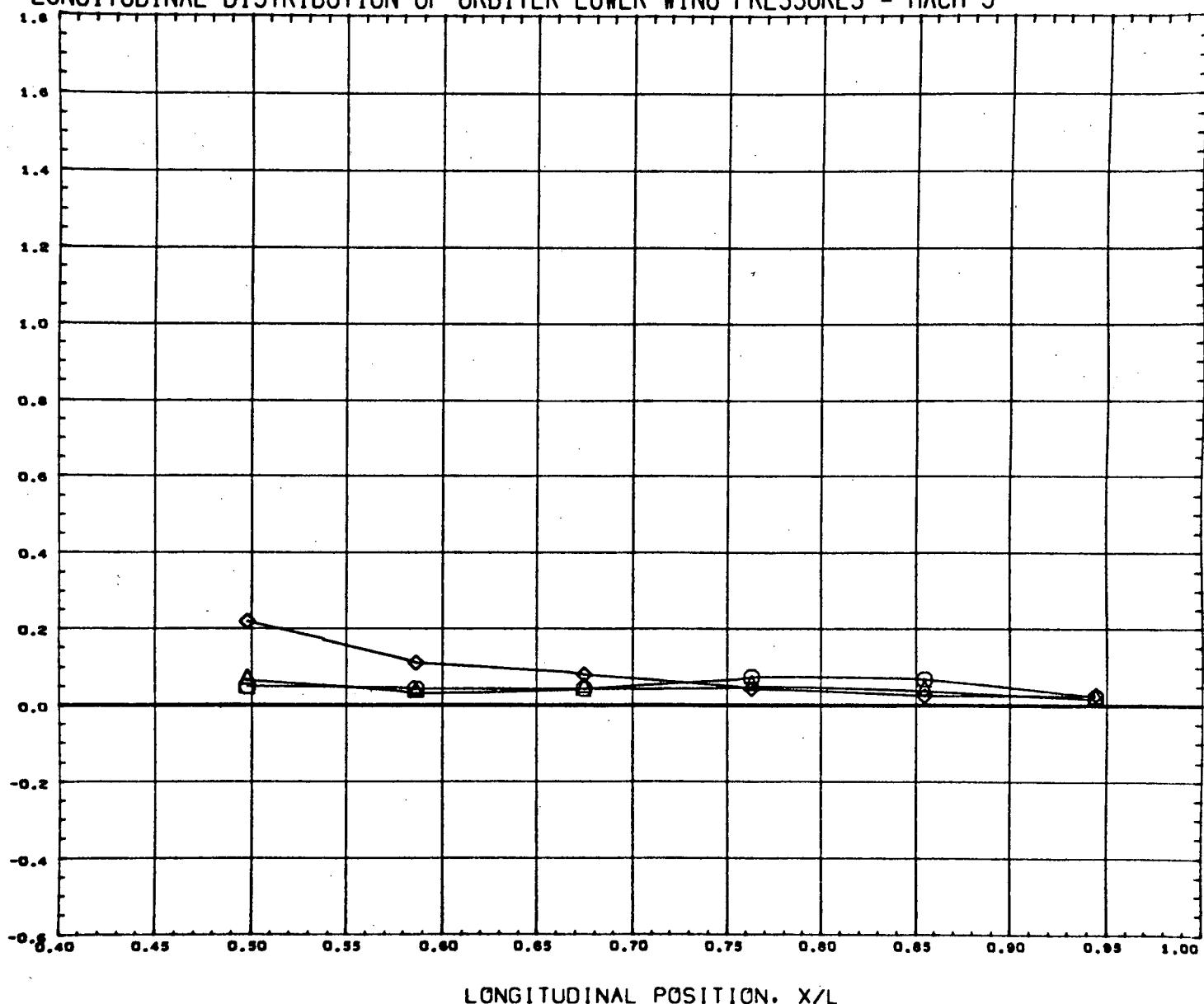
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8563•

PAGE 816

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



SYMBOL DELTAX Y/Z DELTAZ
 - 0.143 0.230 0.120
 Δ 0.103
 ◇ 0.226

PARAMETRIC VALUES
 ALPHAB 3.378 MACH 4.970
 ALPHAI 0.000 ORBPOW 100.000
 BSTPOW 50.000

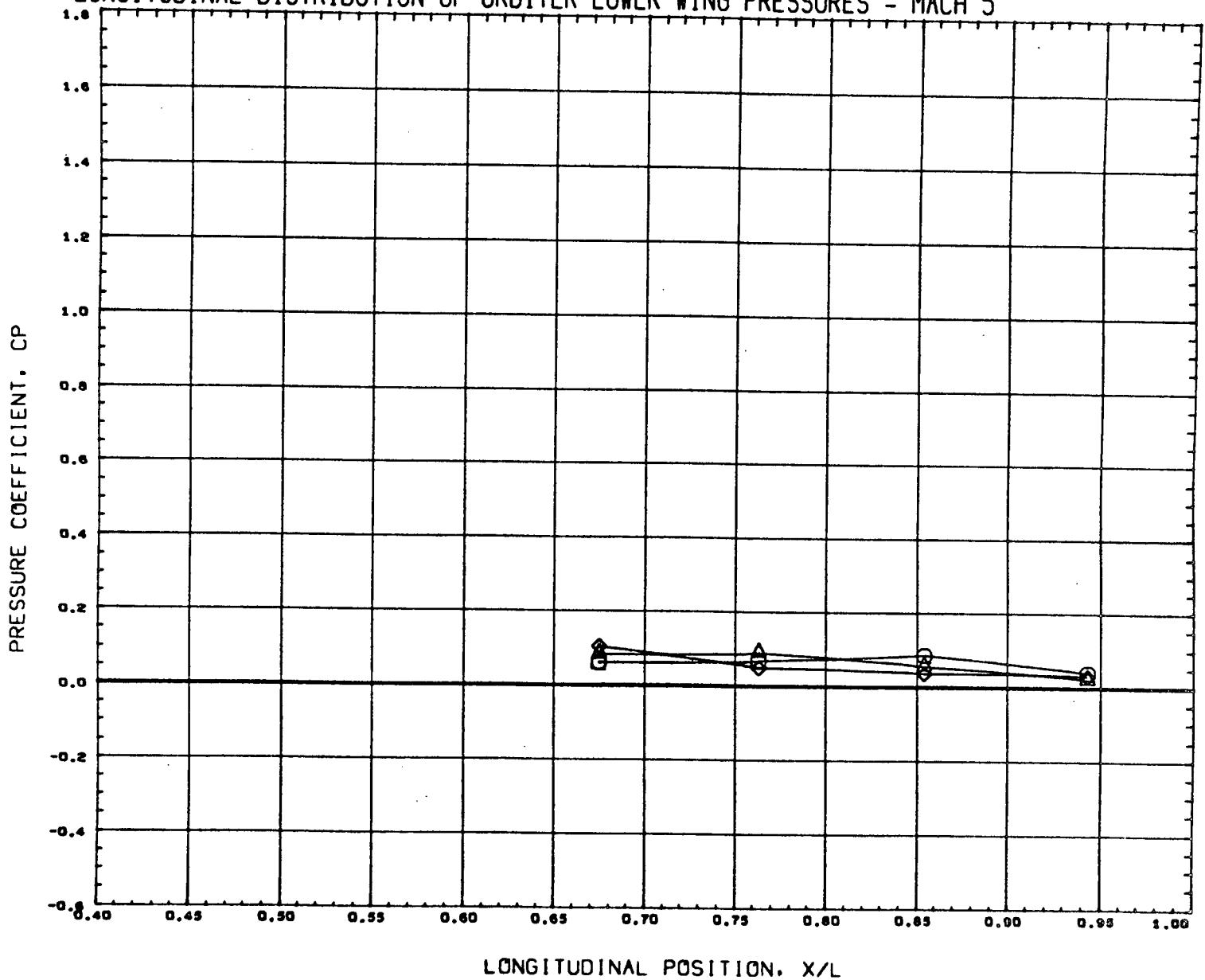
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8564•

PAGE 817

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	T/B	DELTA Z
C	- 0.143	0.399	0.120
△	0.103		
◊	0.226		

PARAMETRIC VALUES			
ALPHAB	3.570	MACH	4.970
ALPHAT	0.000	ORBPOW	100.000
BSTPOW	50.000		

REFERENCE FILE

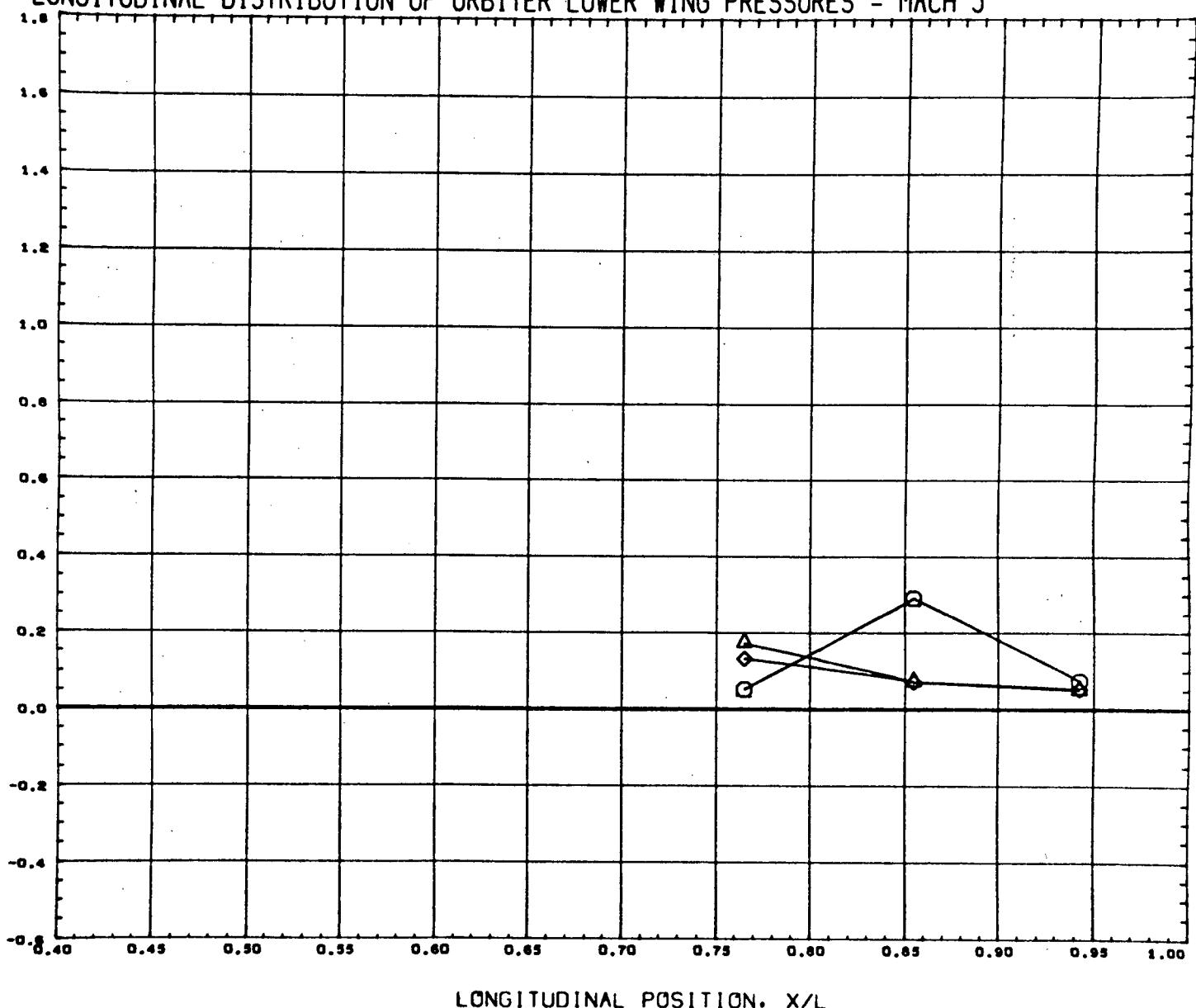
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8564•

PAGE 818

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL : DELTAX Y/B DELTAZ
△ - 0.143 0.569 0.120
○ 0.103 0.226

PARAMETRIC VALUES
 ALPHAB 3.578 MACH 4.970
 ALPHAI 0.000 ORBPOW 100.000
 BSTPOW 50.000

REFERENCE FILE

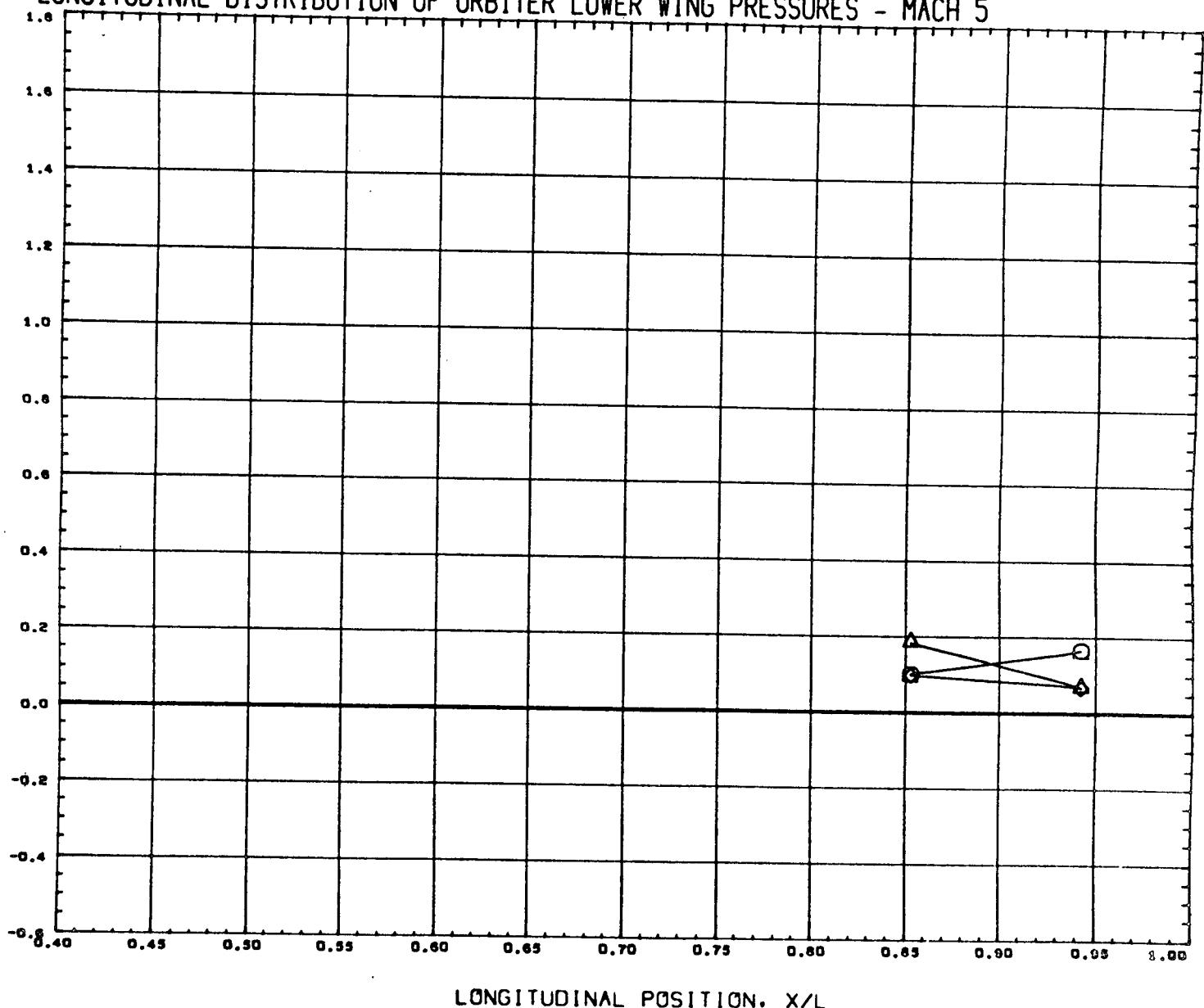
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8564•

PAGE 819

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



SYMBOL DELTAX T/B DELTAZ
 ◻ - 0.143 0.739 0.120
 △ 0.103 -
 ◇ 0.226 -

PARAMETRIC VALUES
 ALPHAB 3.978 MACH 4.970
 ALPHAT 0.000 ORBPOW 100.000
 BSTPOW 50.000

REFERENCE FILE

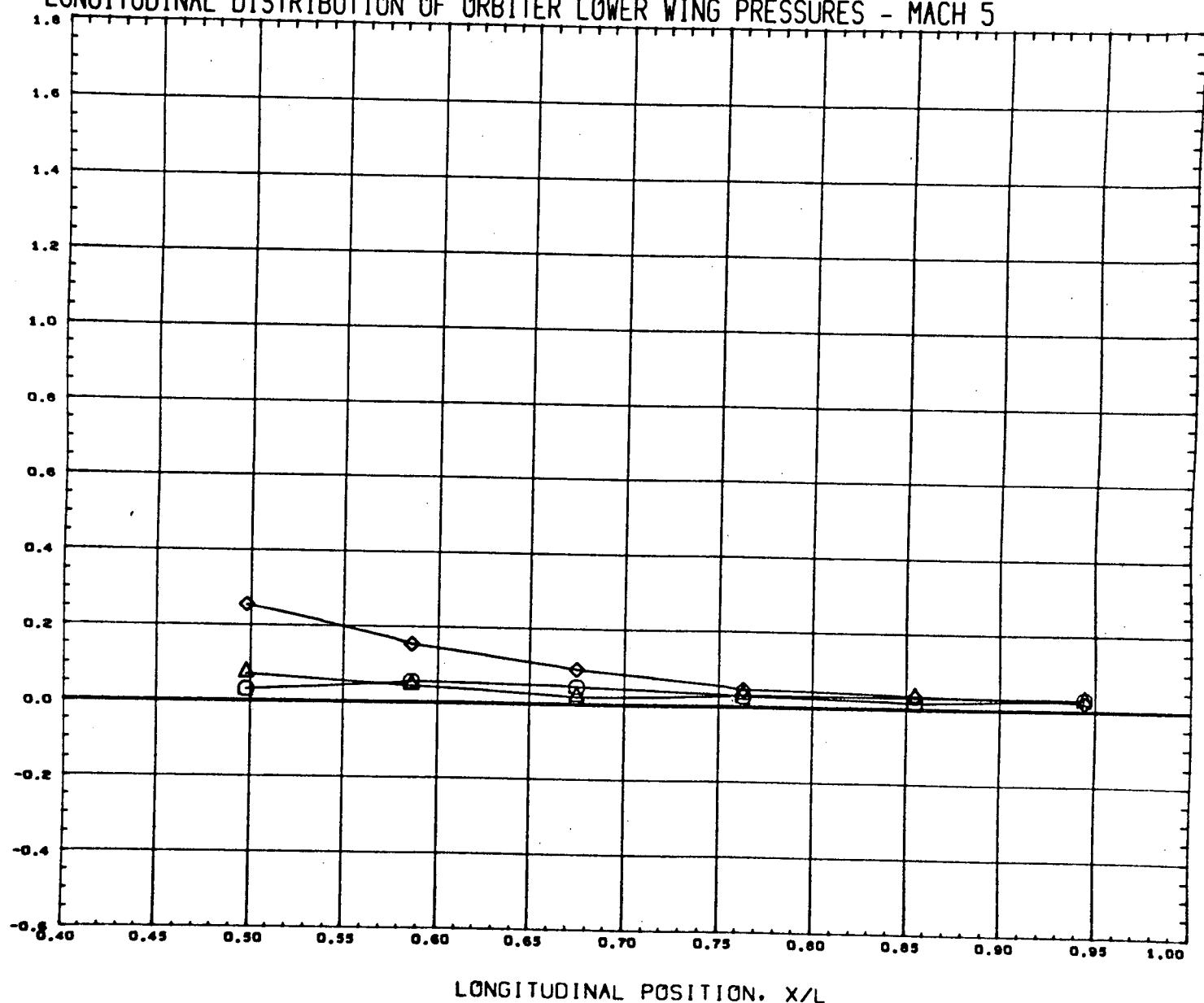
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8564•

PAGE 820

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL DELTAX T/B DELTAZ

- 0.144 0.230 0.151

△ 0.103

◊ 0.226

PARAMETRIC VALUES

ALPHAB	3.576	MACH .	4.970
ALPHAI	0.000	ORBPOW	100.000
BSTPOW	50.000		

REFERENCE FILE

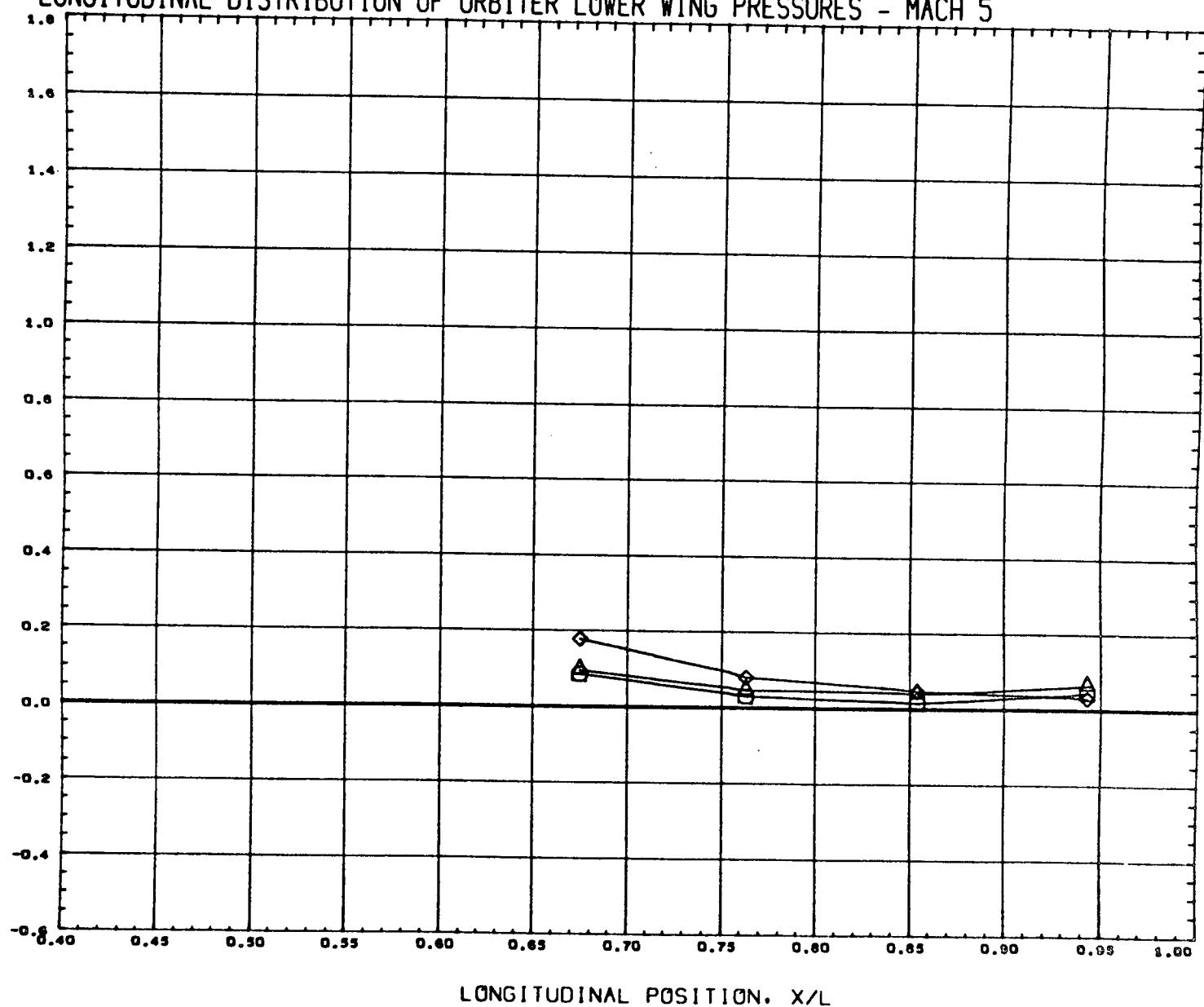
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8564•

PAGE 821

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



LONGITUDINAL POSITION. X/L

SYMBOL	DELTA X	T/B	DELTA Z
-	0.144	0.399	0.151
△	0.103		
◊	0.226		

PARAMETRIC VALUES			
ALPHAB	3.578	MACH	4.970
ALPHAI	0.000	ORBPOW	100.000
BSTPOW	50.000		

REFERENCE FILE

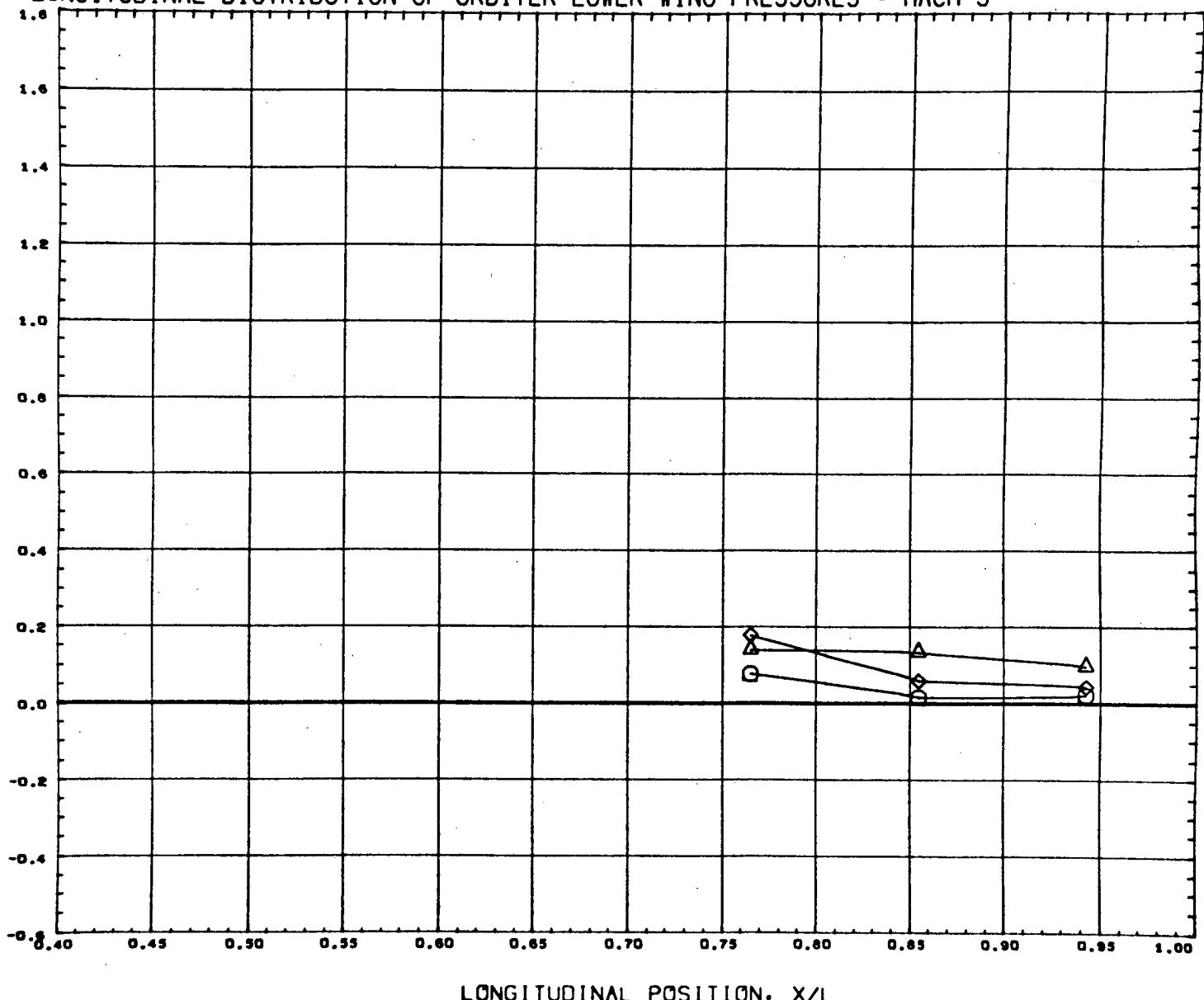
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8564•

PAGE 822

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL DELTAX Y/E DELTAZ

- 0.144 0.568 0.151

Δ 0.103

\diamond 0.226

PARAMETRIC VALUES

ALPHAB	3.578	MACH	4.970
ALPHAI	0.000	ORBPOW	100.000
BSTPOW	50.000		

REFERENCE FILE

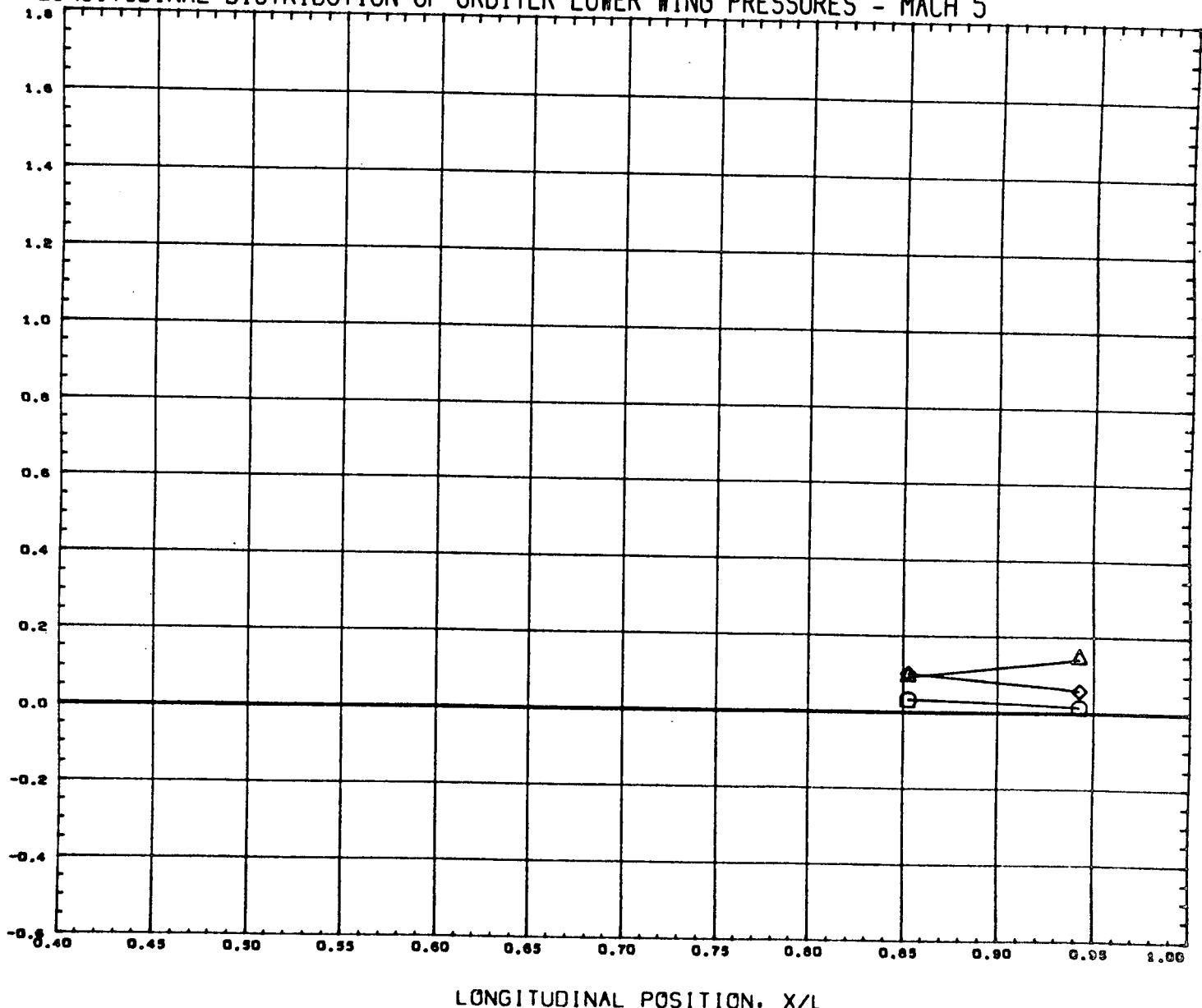
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8564•

PAGE 823

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOLS DELTAX T/B DELTAZ
 ○ - 0.144 0.735 0.151
 ▲ 0.103
 ◇ 0.226

LONGITUDINAL POSITION, X/L

	ALPHAB	MACH
ALPHAI	3.370	4.970
ORBPOW	0.000	100.000
BSTPOW	50.000	

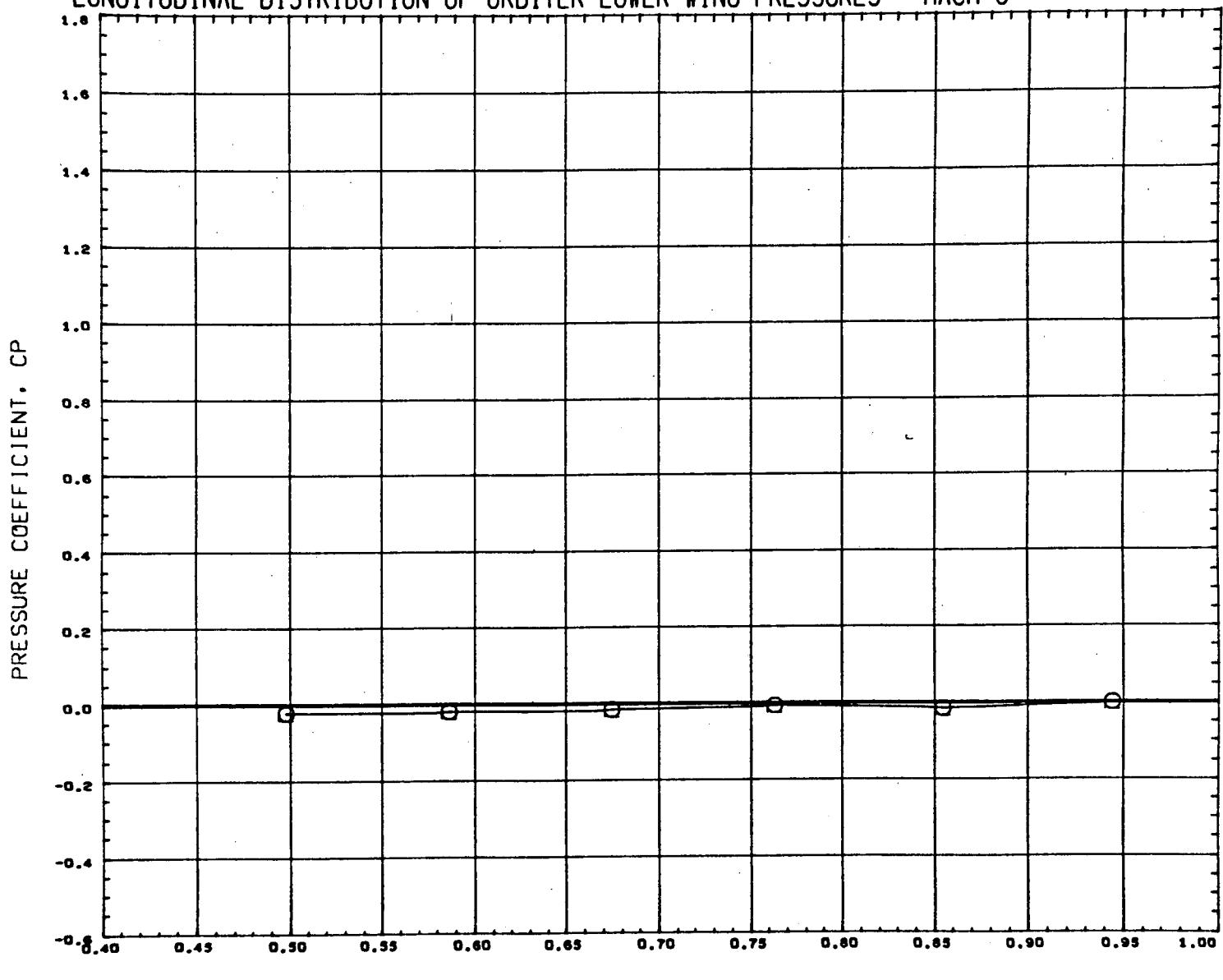
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AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8564•

PAGE 824

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



REFERENCE FILE

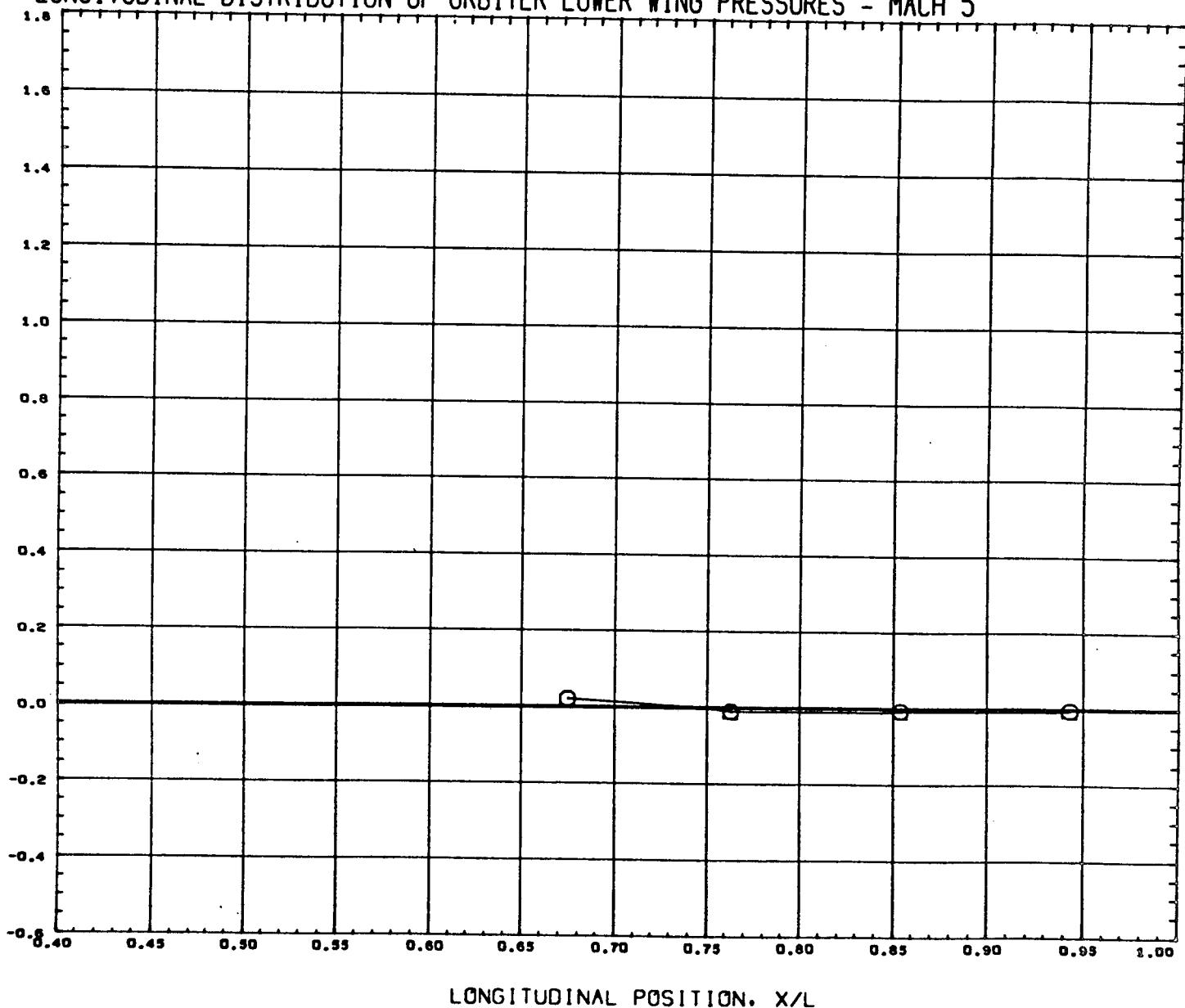
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8564•

PAGE 825

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL DELTAX T/B DELTAZ
C 0.520 0.399 0.999

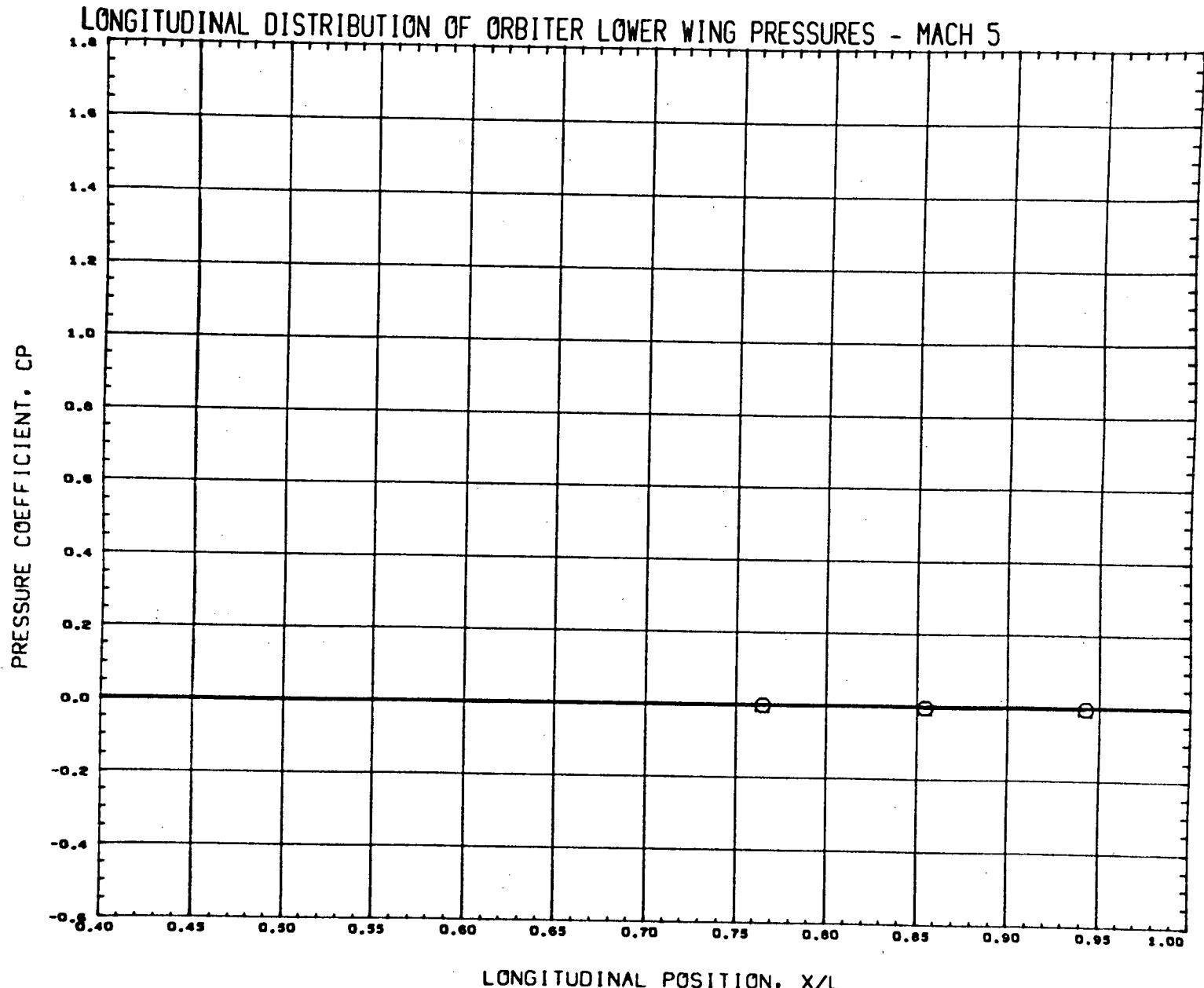
	ALPHAB	MACH	4.970
ALPHAI	0.000	ORBPOW	100.000
BSTPOW	50.000		

REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8564•

PAGE 826



SYMBOL DELTAX Y/Z DELTAZ
C 0.920 0.968 0.908

PARAMETRIC VALUES		
ALPHAB	3.578	MACH 4.970
ALPHAI	0.000	ORBPOW 100.000
BSTPOW	50.000	

REFERENCE FILE

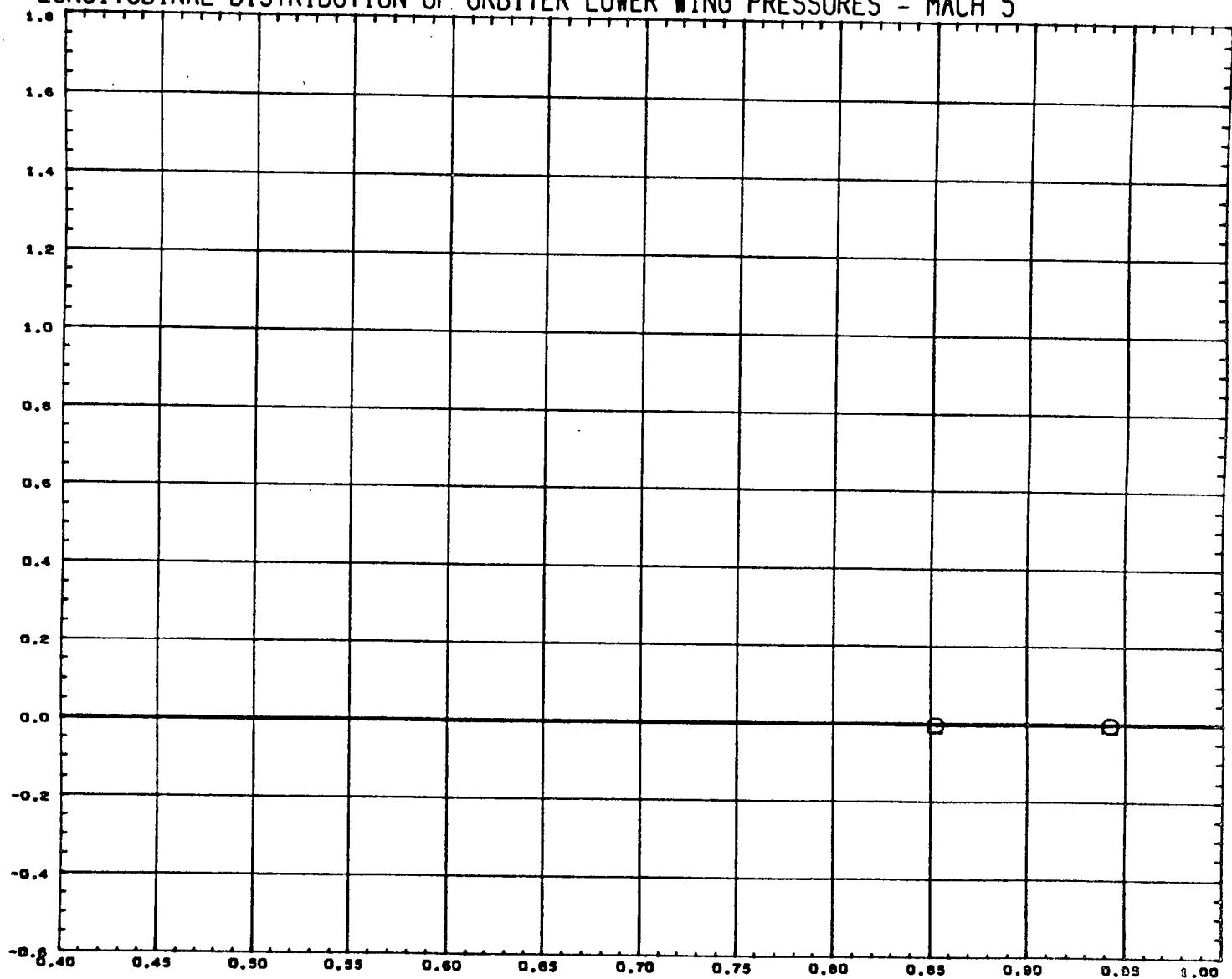
AEDC VA1163 MCAC ORBITER (LOWER WING)

•HT8564•

PAGE 827

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION. X/L

SYMBOL DELTAX Y/Z DELTAZ
C 0.920 0.736 0.906

	ALPHAB	MACH	ORBPOW
ALPHAI	3.578	4.970	0.000
BSTPOW	0.000	800.000	50.000

REFERENCE FILE

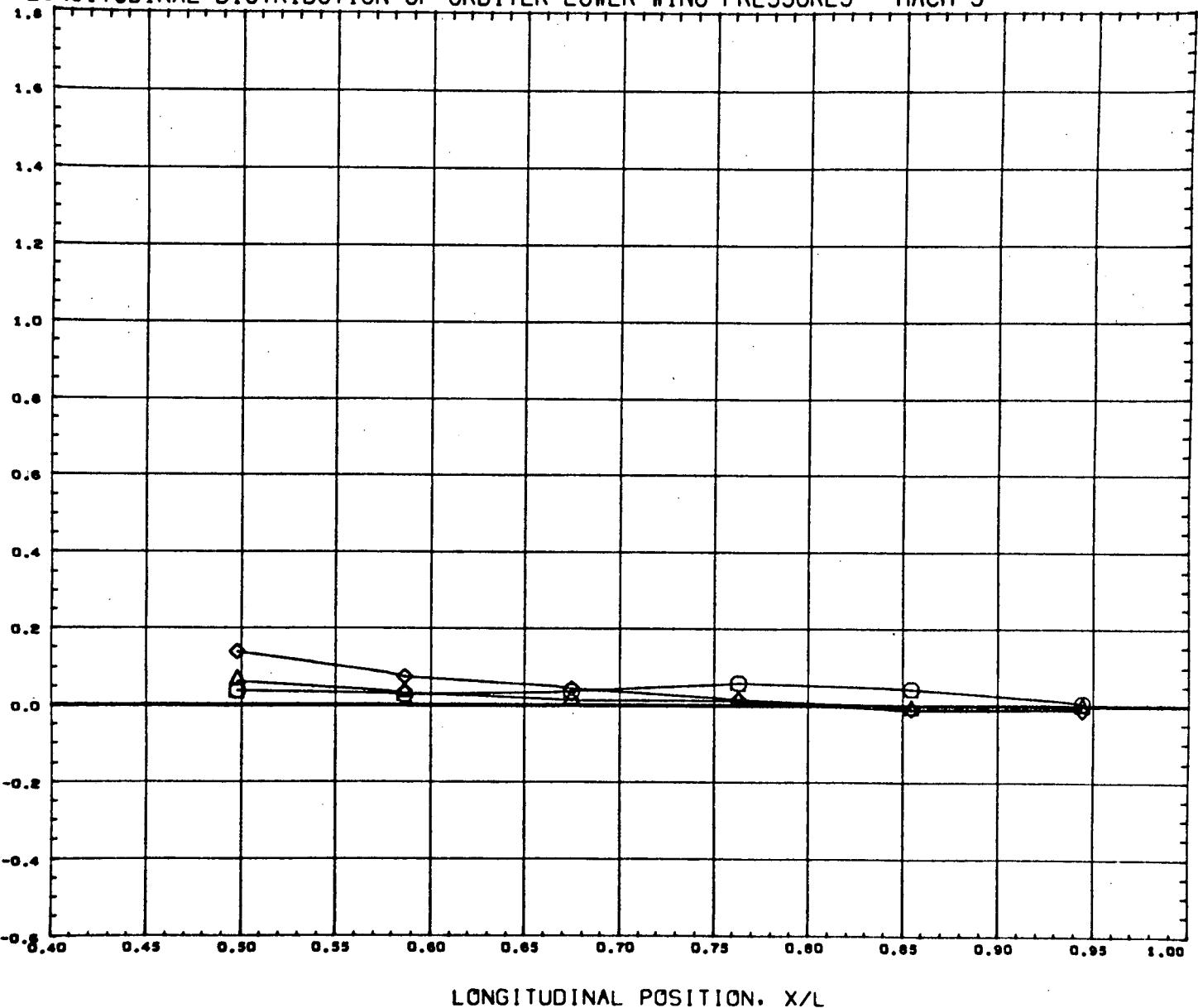
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8564•

PAGE 828

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL	DELTA X	T/B	DELTA Z
C	-0.144	0.230	0.120
△	0.103		
◊	0.226		

PARAMETRIC VALUES		
ALPHAB	-4.930	MACH 4.970
ALPHAI	0.000	ORBPOW 0.000
BSTPOW	0.000	

REFERENCE FILE

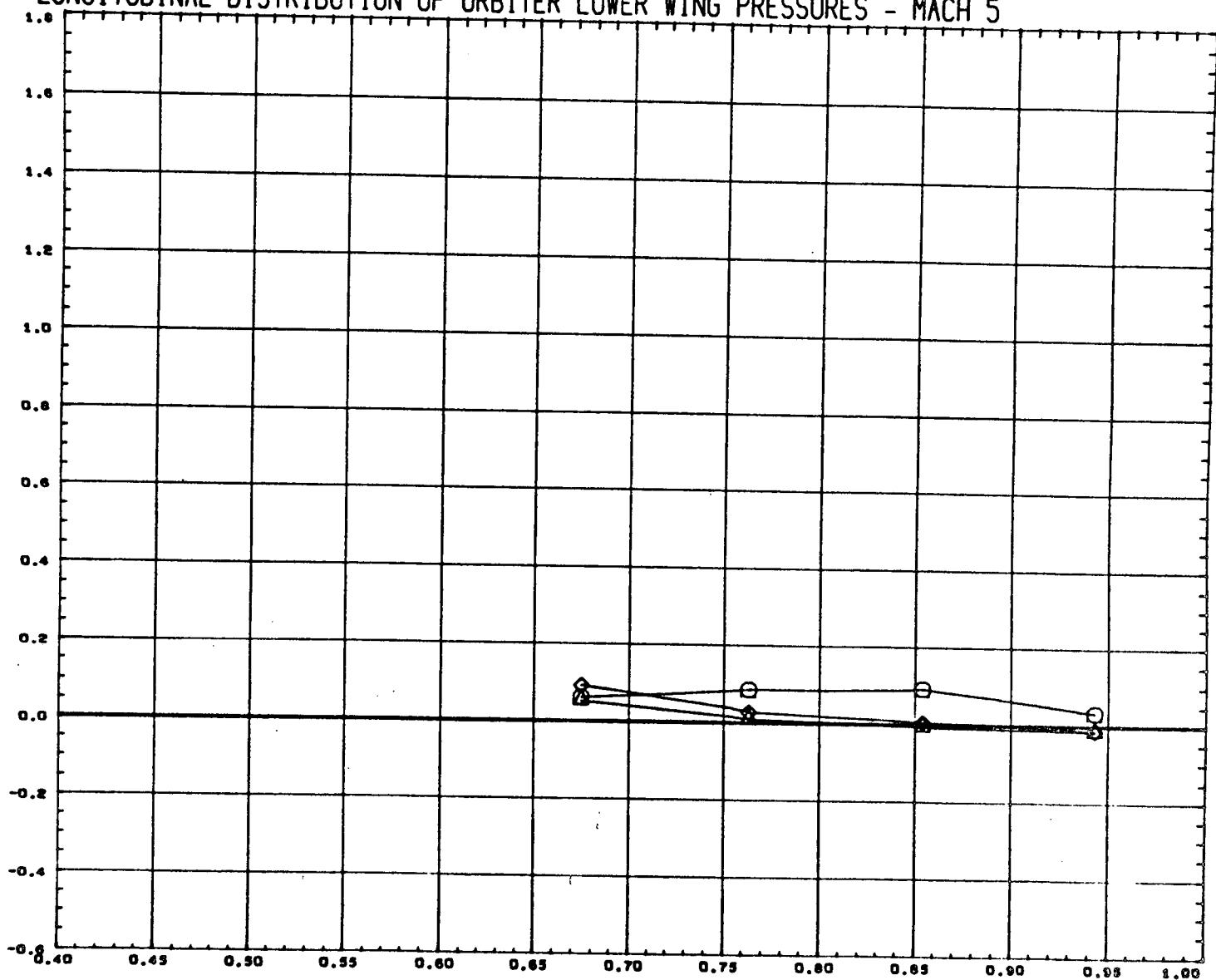
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8572•

PAGE 829

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION, X/L

SYMBOL	DELTAX	Y/B	DELTAZ
C	-0.144	0.399	0.120
△	0.103		
◊	0.226		

PARAMETRIC VALUES		
ALPHAB	-4.930	MACH 4.970
ALPHAI	0.000	ORBPOW 0.000
BSTPOW	0.000	

REFERENCE FILE

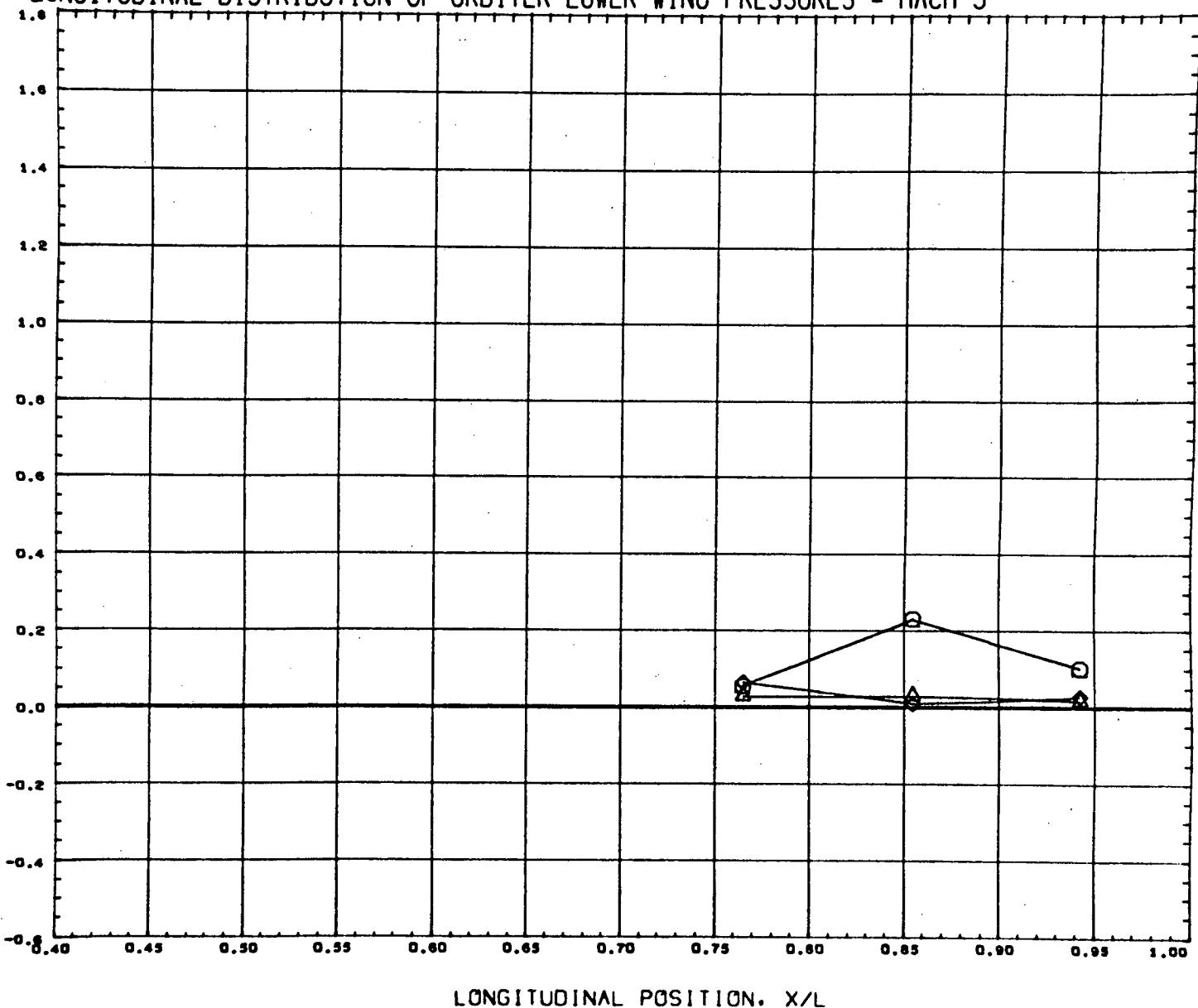
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8572•

PAGE 830

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



SYMBOL DELTAX Y/Z DELTAZ

- 0.144 0.569 0.120

Δ 0.103

◊ 0.226

PARAMETRIC VALUES

ALPHAB	- 4.930	MACH	4.970
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

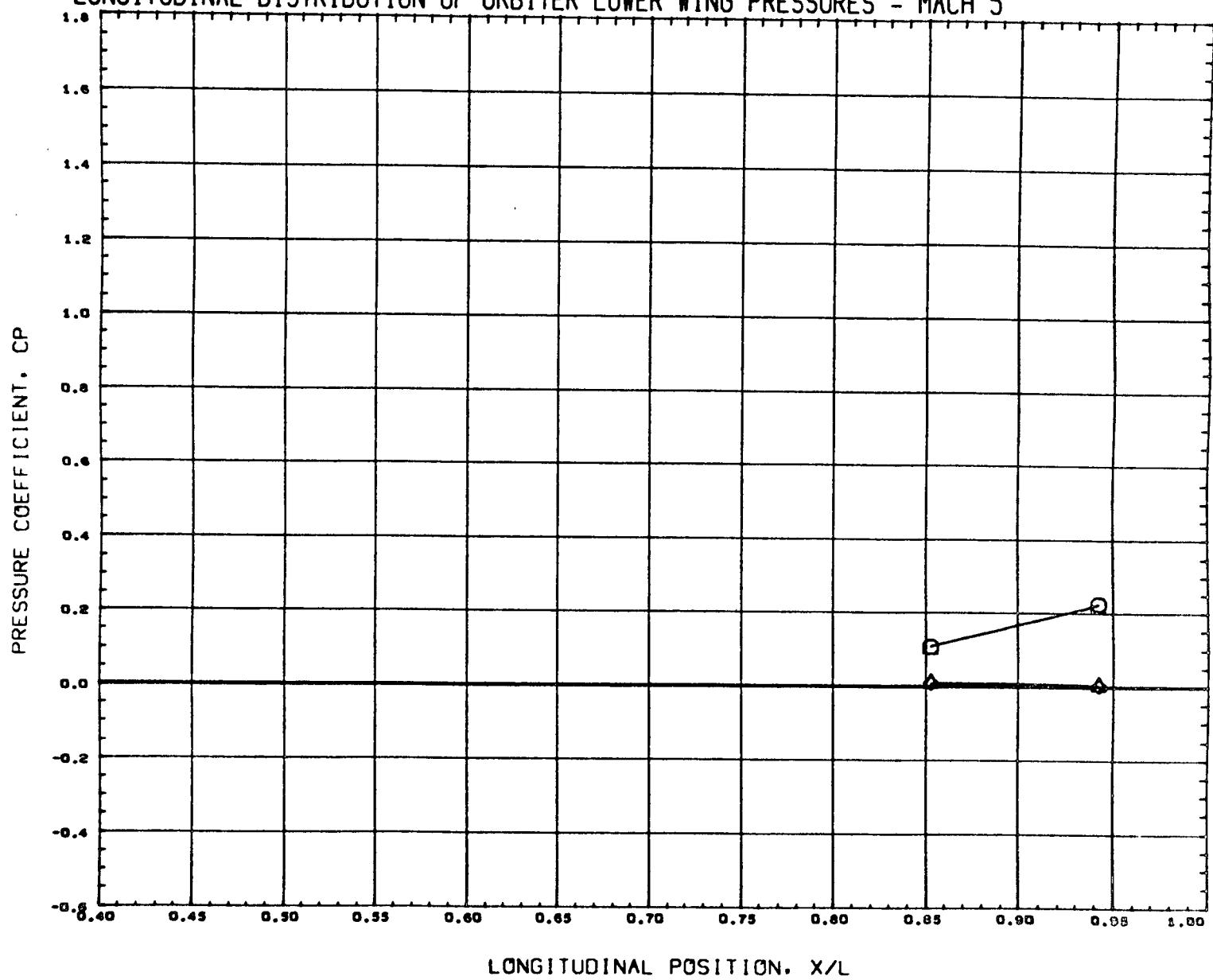
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AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8572•

PAGE 831

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

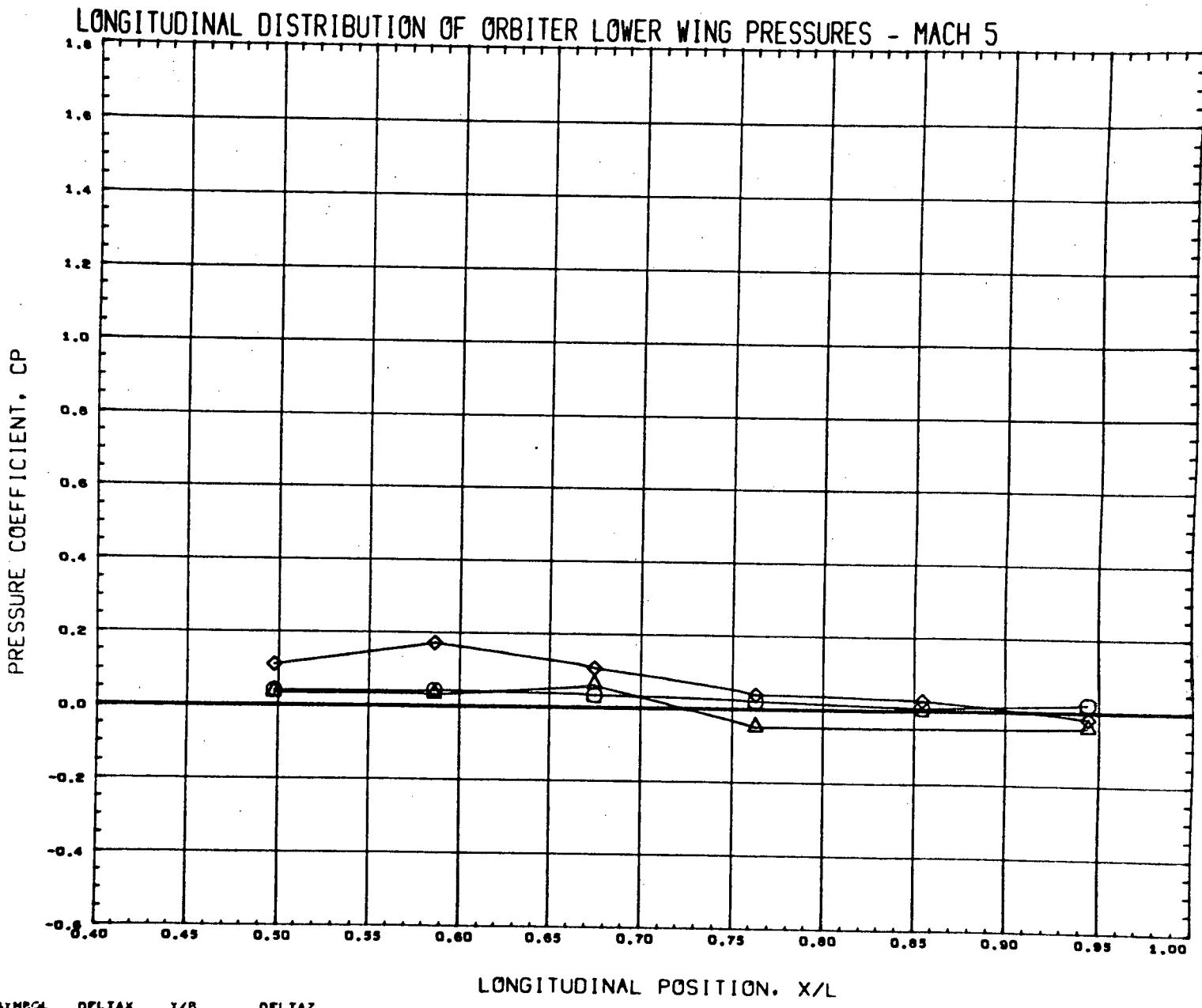


REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8572•

PAGE 832



SYMBOL DELTAX T/B DELTAZ

Δ - 0.144 0.230 0.151
 0.103
 0.226

LONGITUDINAL POSITION, X/L

PARAMETRIC VALUES		
ALPHAB	- 4.930	MACH 4.970
ALPHAI	0.000	ORBPOW 0.000
BSTPOW	0.000	

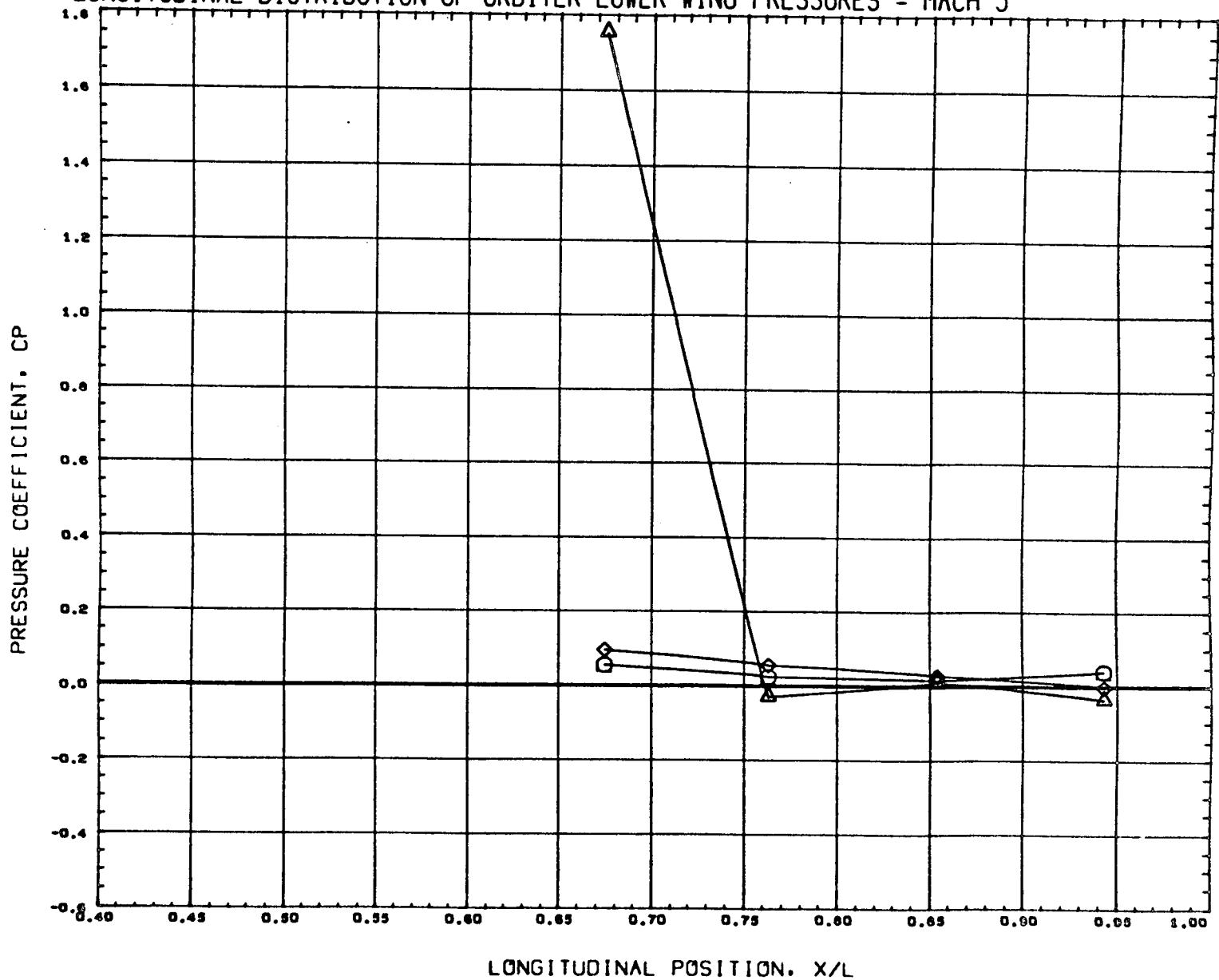
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8572•

PAGE 833

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTAX	Y/B	DELTAZ
Δ	-0.144	0.399	0.151
\diamond	0.103		
\circ	0.226		

PARAMETRIC VALUES		
ALPHAB	- 4.930	MACH 4.970
ALPHAI	0.000	ORBPOW 0.000
BSTPOW	0.000	

REFERENCE FILE

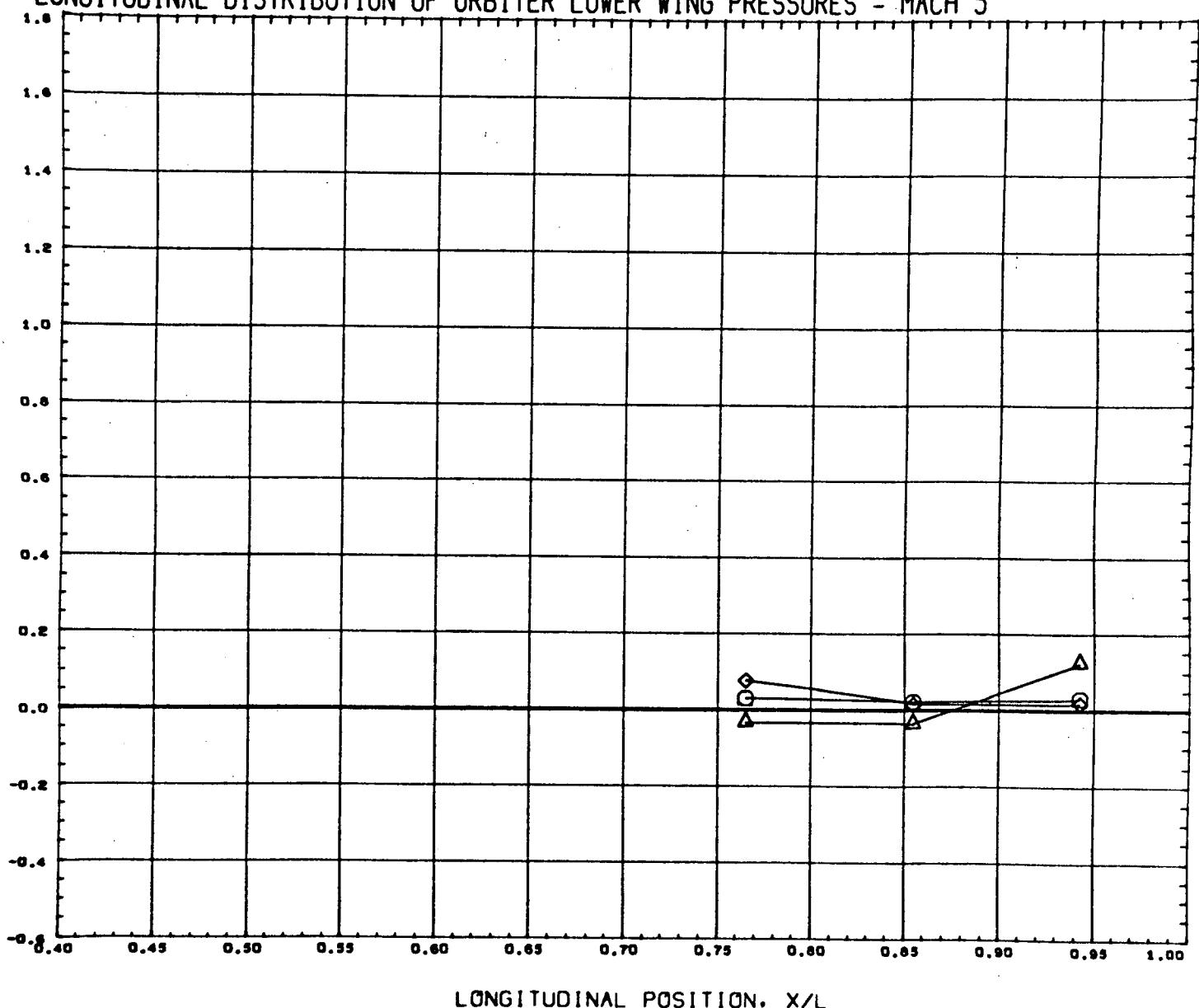
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8572•

PAGE 834

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL DELTAX Y/B DELTAZ

Δ - 0.144 0.569 0.191
 0.103
 0.226

PARAMETRIC VALUES

ALPHAB	- 4.930	MACH	4.970
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

REFERENCE FILE

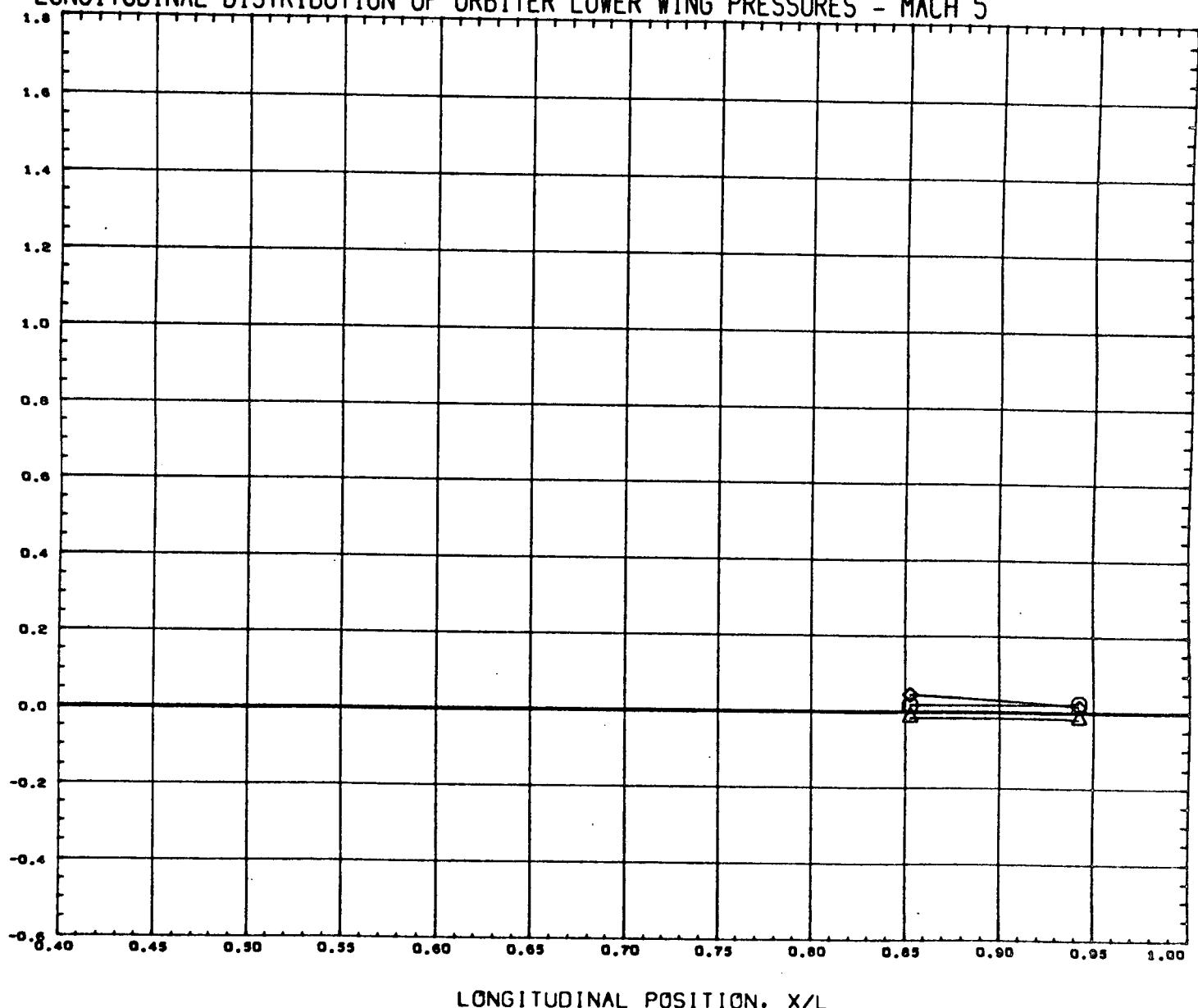
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8572•

PAGE 835

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION. X/L

SYMBOL	DELTA X	Y/E	DELTA Z
-	0.144	0.738	0.151
△	0.103		
◊	0.226		

PARAMETRIC VALUES		
ALPHAB	- 4.930	MACH 6.970
ALPHAI	0.000	ORBPOW 0.000
BSTPOW	0.000	

REFERENCE FILE

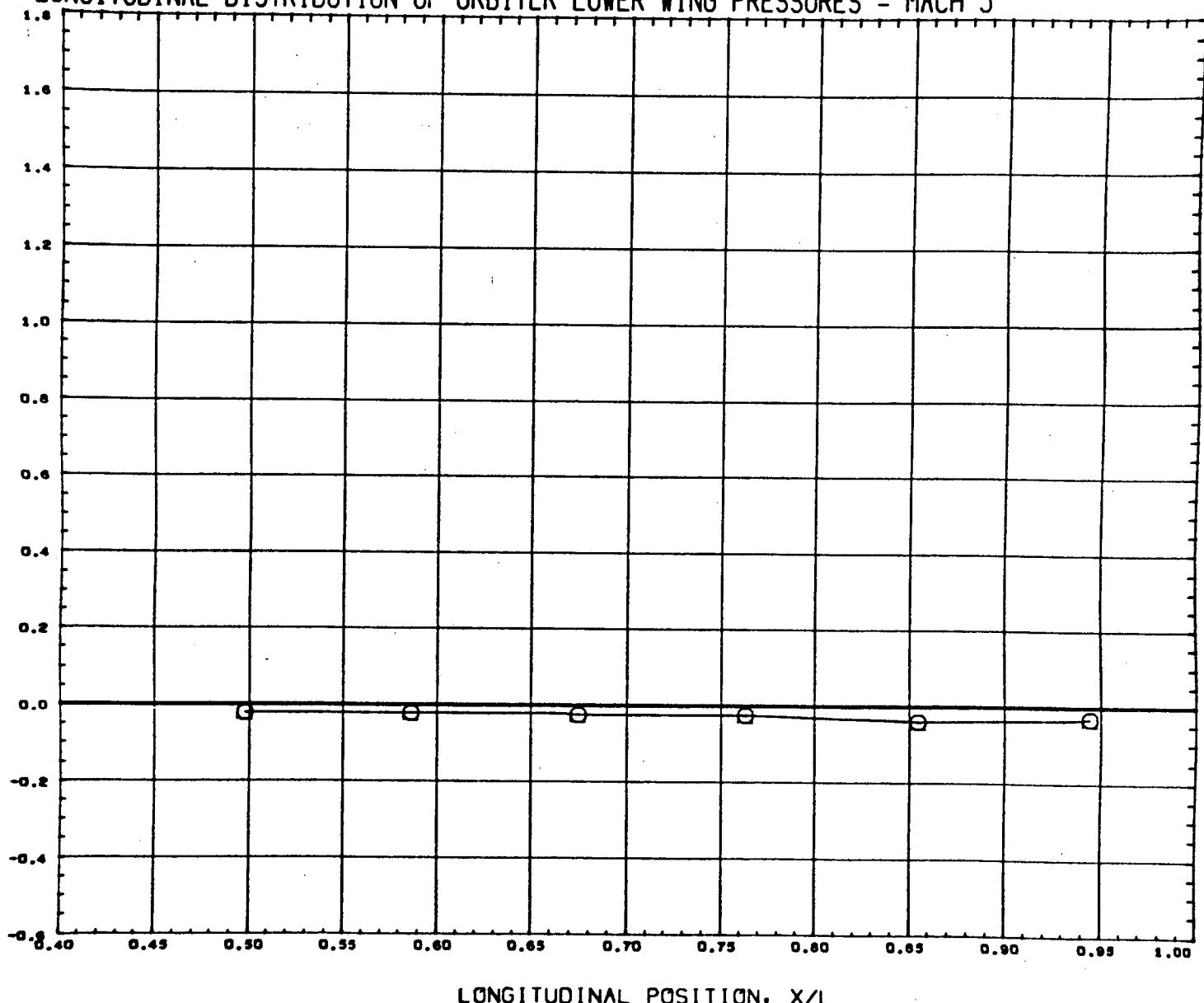
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8572•

PAGE 836

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	T/B	DELTA Z
C	0.520	0.230	0.908

PARAMETRIC VALUES	
ALPHAB	- 4.930
ALPHAI	0.000
BSTPOW	0.000
MACH	4.970
ORBPOW	0.000

REFERENCE FILE

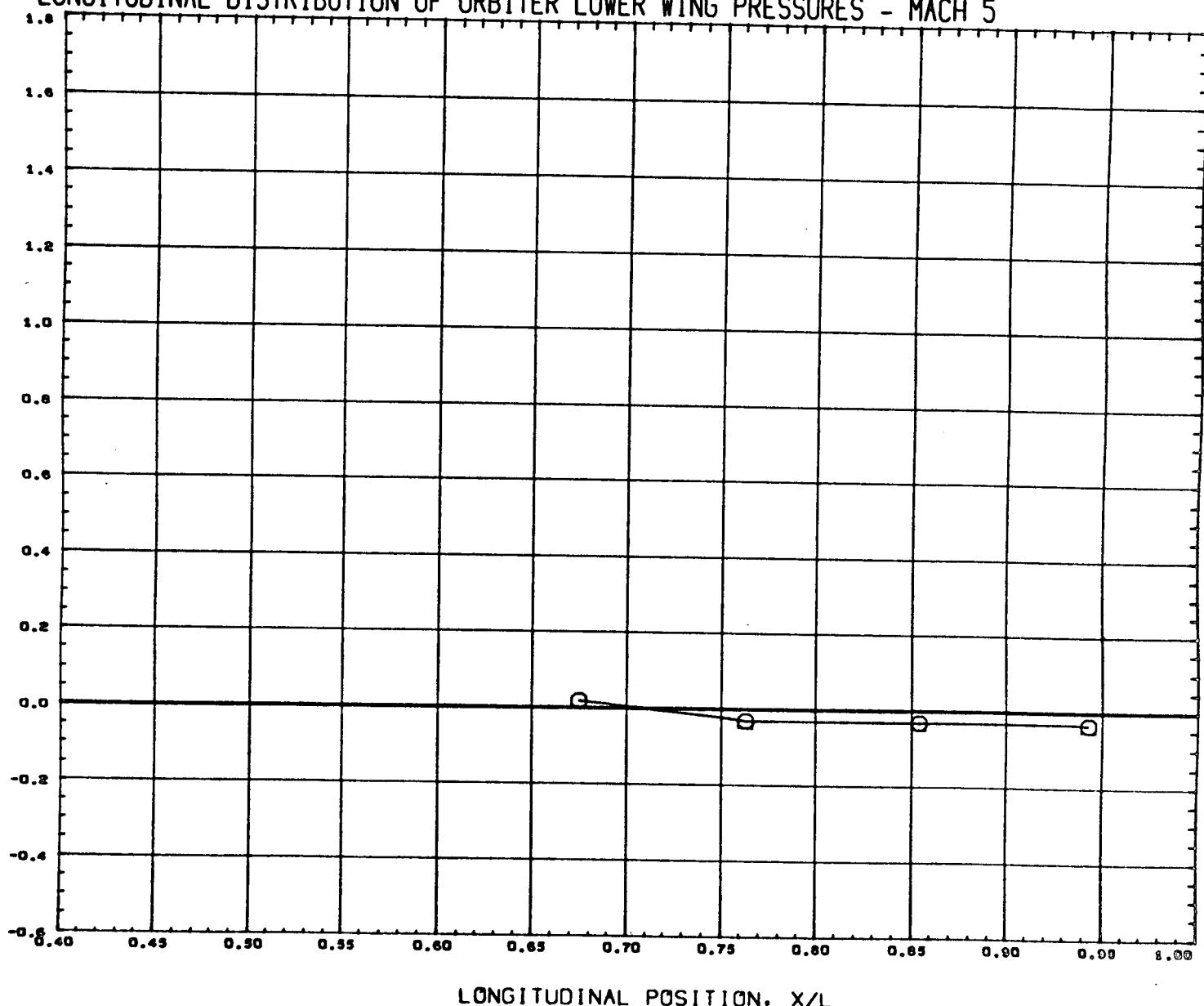
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8572•

PAGE 837

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



LONGITUDINAL POSITION. X/L

SYMBOL DELTAX Y/B DELTAZ
CJ 0.320 0.399 0.908

PARAMETRIC VALUES		
ALPHAB	- 4.930	MACH 4.970
ALPHAI	0.000	ORBPOW 0.000
BSTPOW	0.000	

REFERENCE FILE

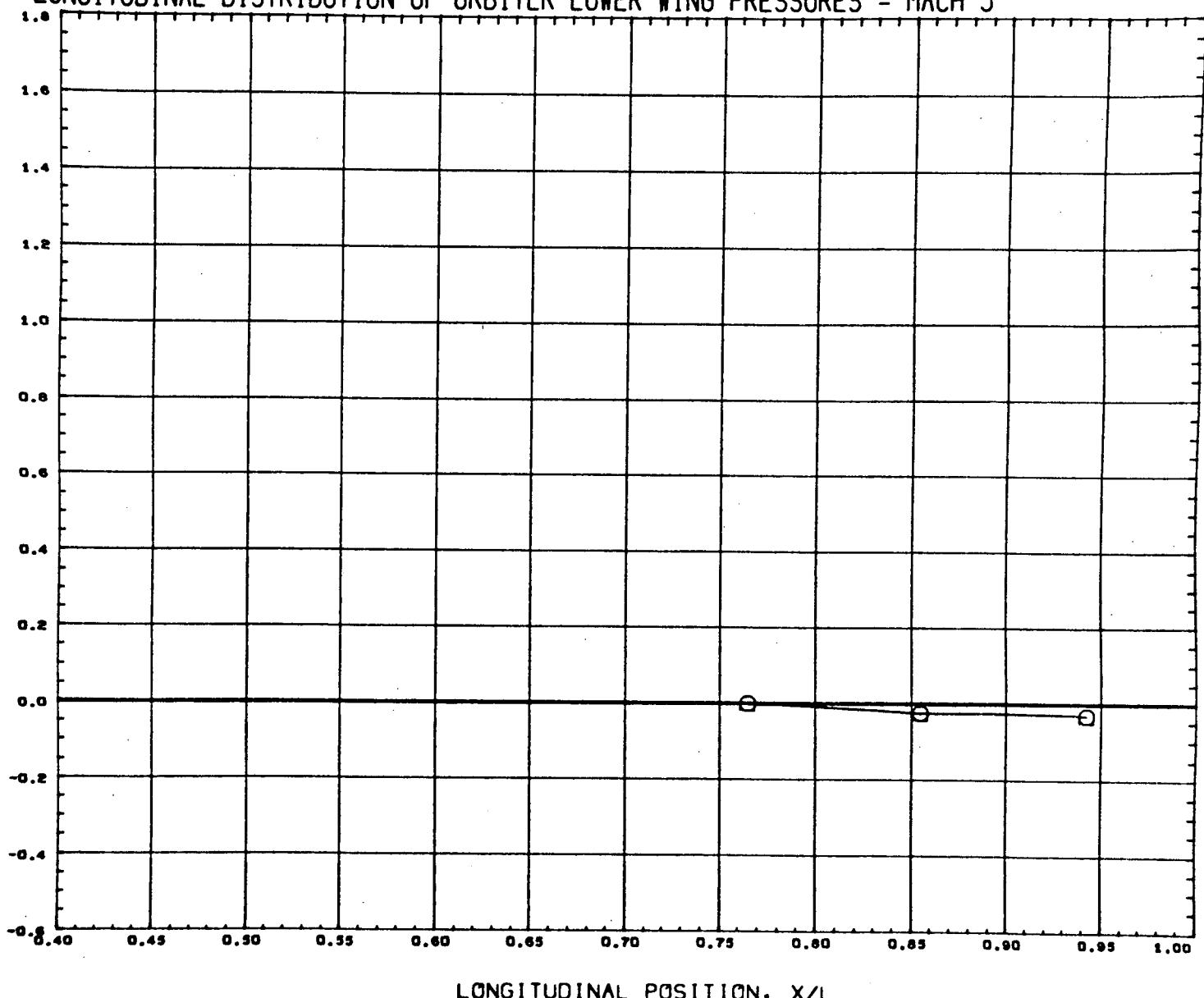
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8572•

PAGE 838

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



LONGITUDINAL POSITION. X/L

SYMBOL DELTAX Y/B DELTAZ
 C 0.520 0.369 0.900

PARAMETRIC VALUES		
ALPHAB	- 4.930	MACH 4.970
ALPHAI	0.000	ORBPOW 0.000
BSTPOW	0.000	

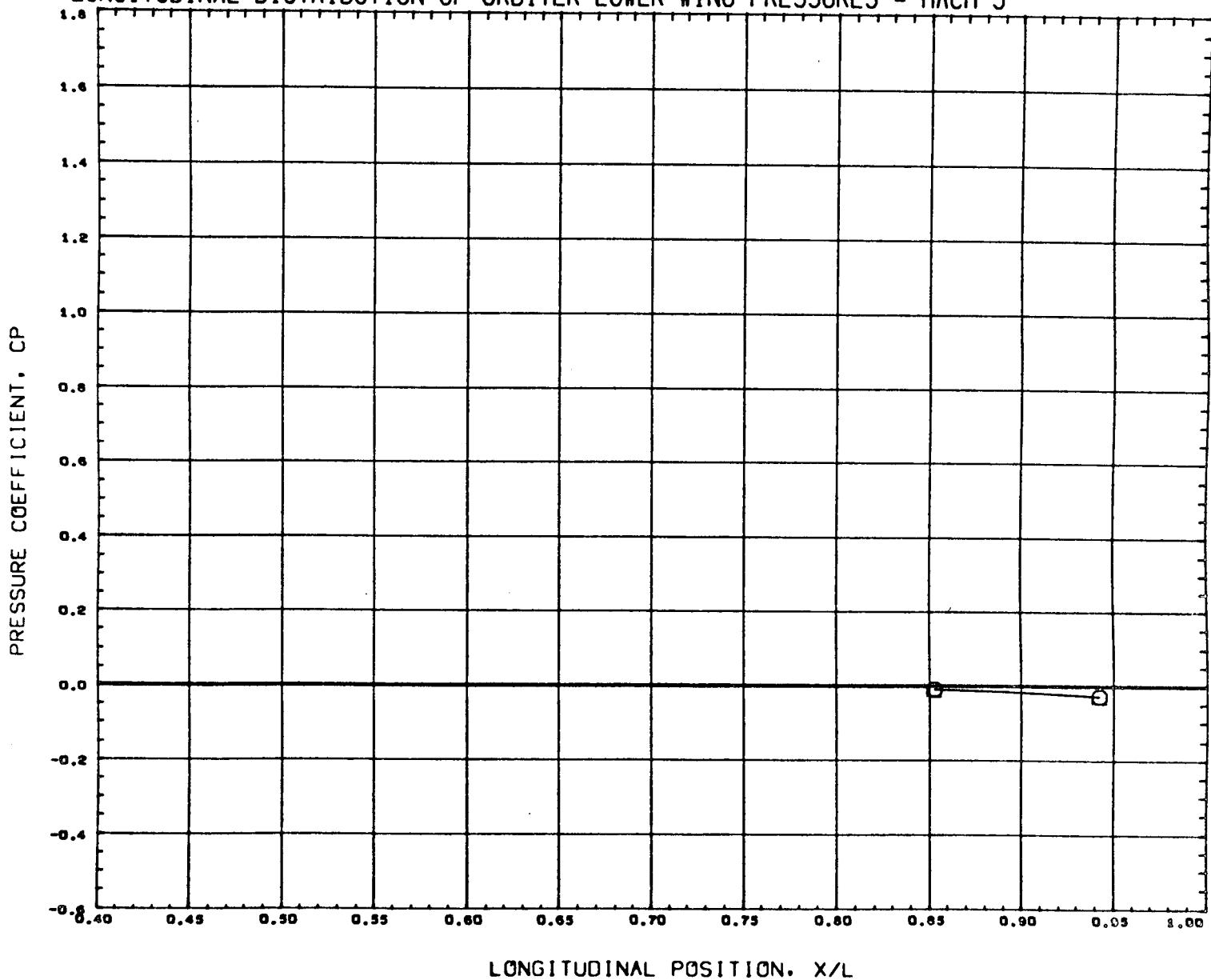
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AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8572•

PAGE 839

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



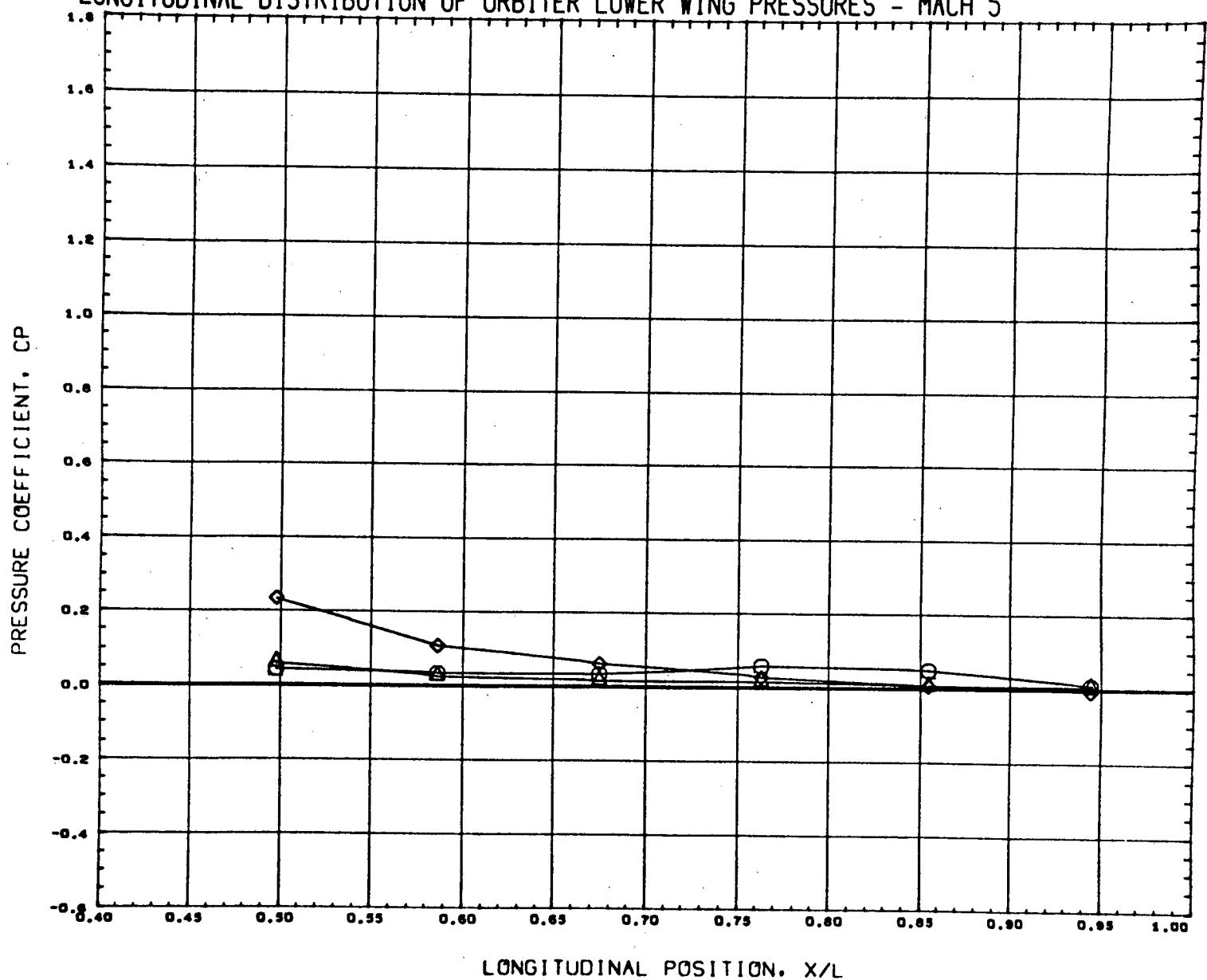
REFERENCE FILE

AEDC VAI163 MDAC ORBITER (LOWER WING)

•HT8572•

PAGE 840

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL DELTAX Y/B DELTAZ

Δ - 0.144 0.230 0.120

\square 0.103

\diamond 0.226

PARAMETRIC VALUES

	ALPHAB	MACH	ORBPOW
ALPHAI	0.001	4.970	0.000
BSTPOW	0.000		

REFERENCE FILE

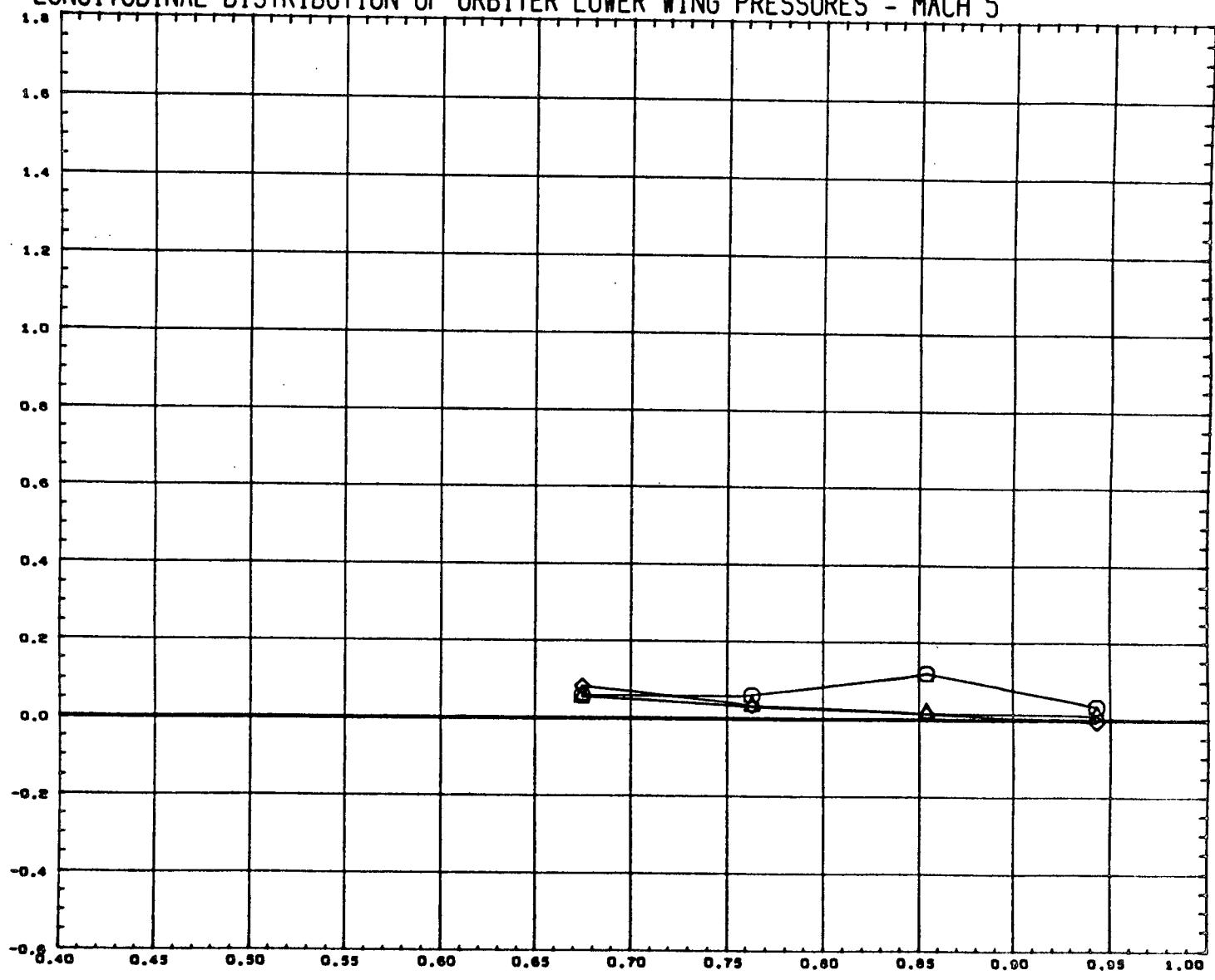
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8573•

PAGE 841

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



LONGITUDINAL POSITION. X/L

SYMBOL	DELTAX	T/B	DELTAZ
○	- 0.144	0.399	0.120
△	0.103		
◊	0.226		

PARAMETRIC VALUES			
ALPHAB	0.001	MACH	4.970
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

REFERENCE FILE

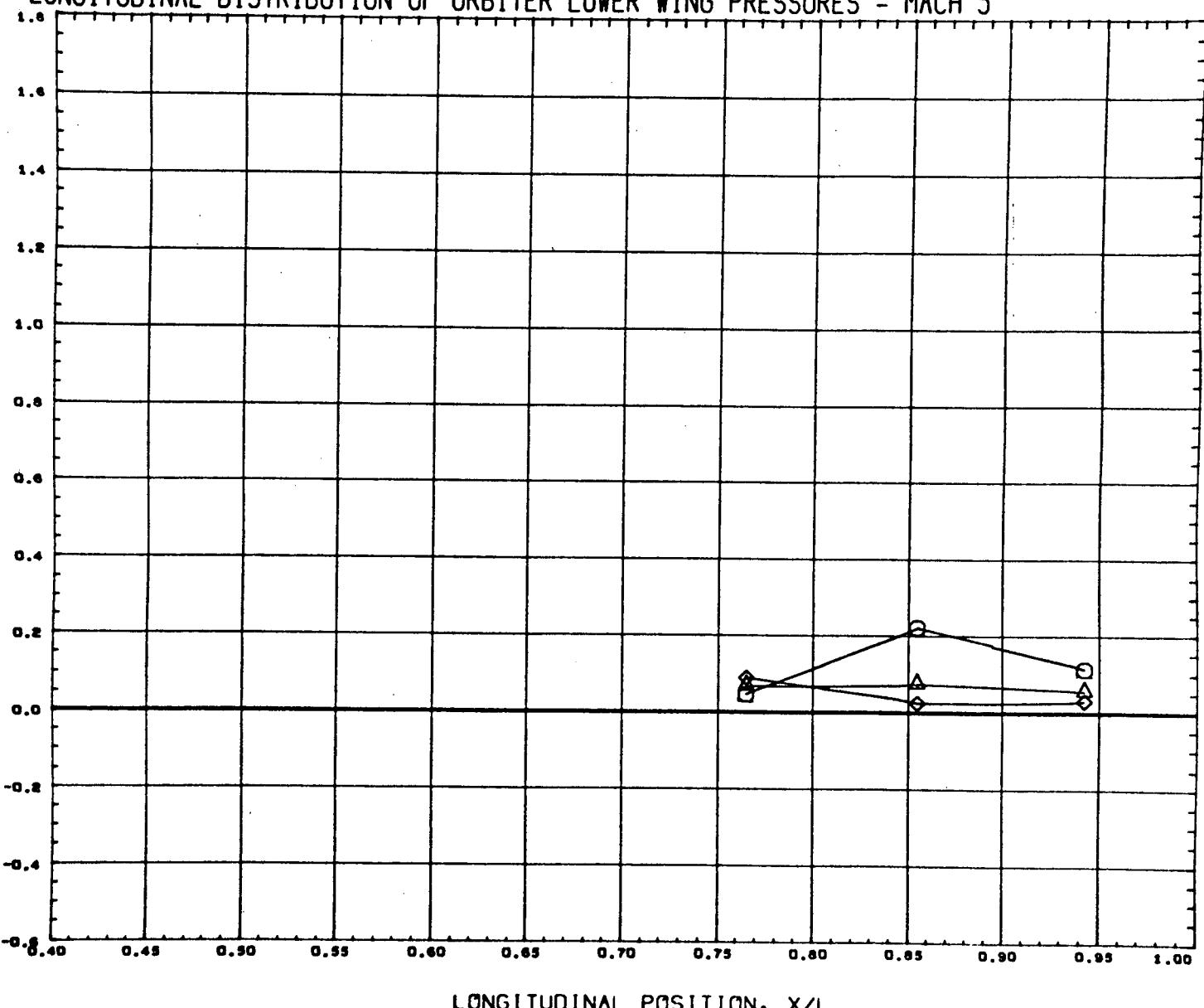
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8573•

PAGE 842

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
-	0.144	0.569	0.120
△	0.103		
◊	0.226		

PARAMETRIC VALUES		
ALPHAB	0.001	MACH
ALPHAI	0.000	ORBPOW
BSTPOW	0.000	

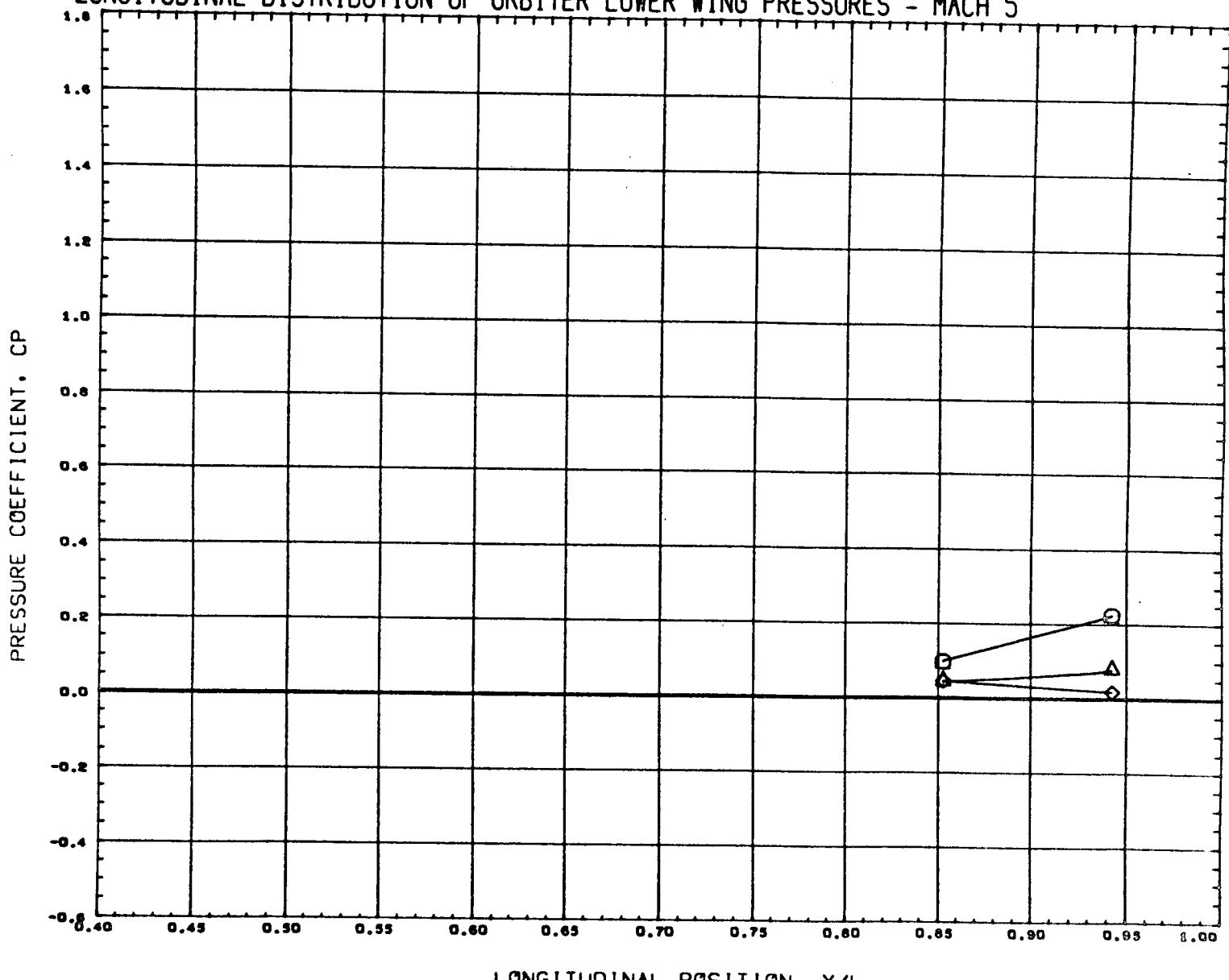
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8573•

PAGE 843

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL DELTAX T/B DELTAZ
 ◻ - 0.144 0.738 0.120
 △ 0.103
 ◇ 0.226

LONGITUDINAL POSITION, X/L

PARAMETRIC VALUES			
ALPHAB	0.001	MACH	4.970
ALPHAI	0.000	ORBPW	0.000
BSTPOW	0.000		

REFERENCE FILE

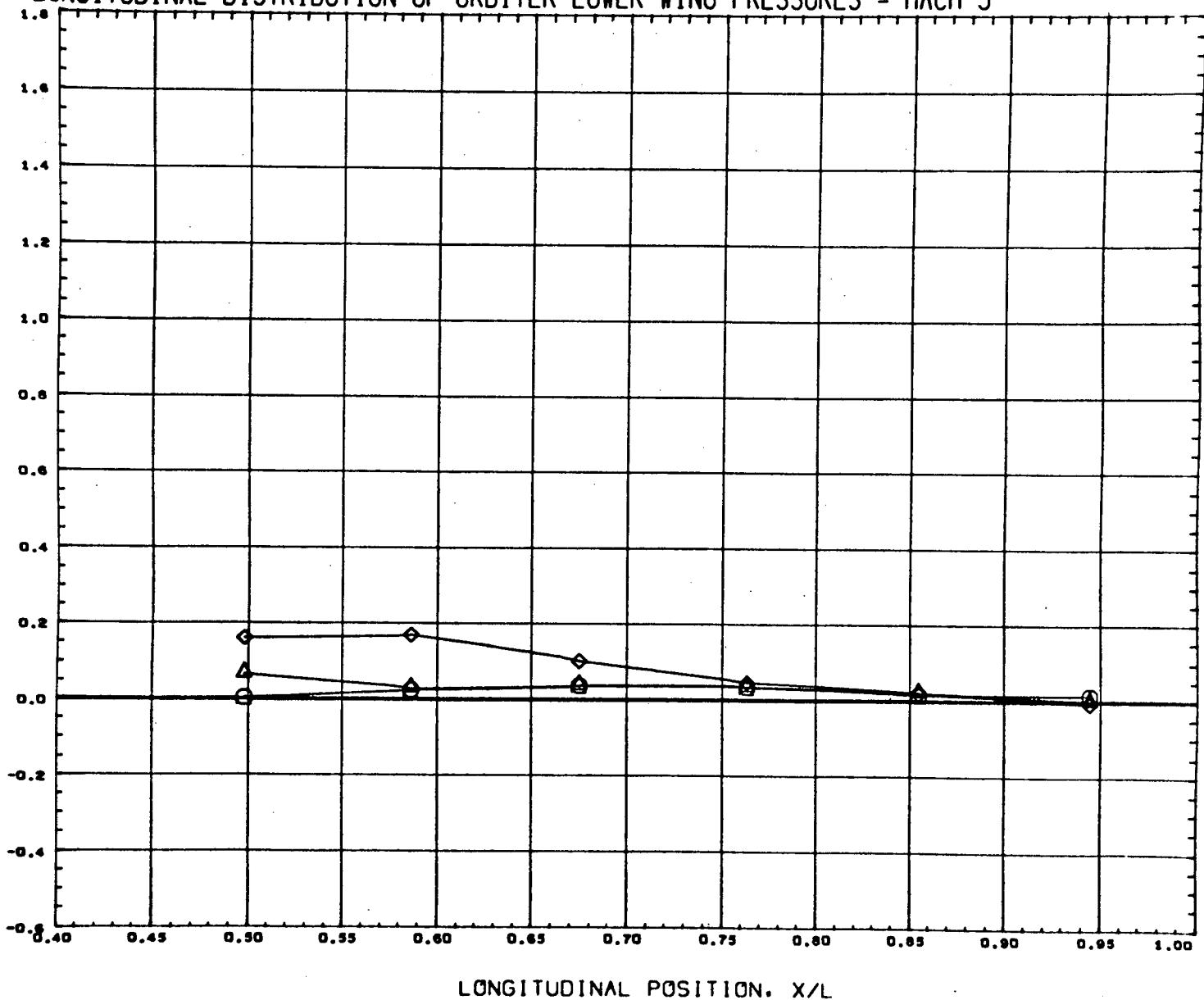
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8573•

PAGE 844

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL DELTAX Y/B DELTAZ
○ - 0.144 0.230 0.151
△ 0.103 0.103
◊ 0.226

PARAMETRIC VALUES
 ALPHAB 0.001 MACH 4.970
 ALPHAI 0.000 ORBPOW 0.000
 BSTPOW 0.000

REFERENCE FILE

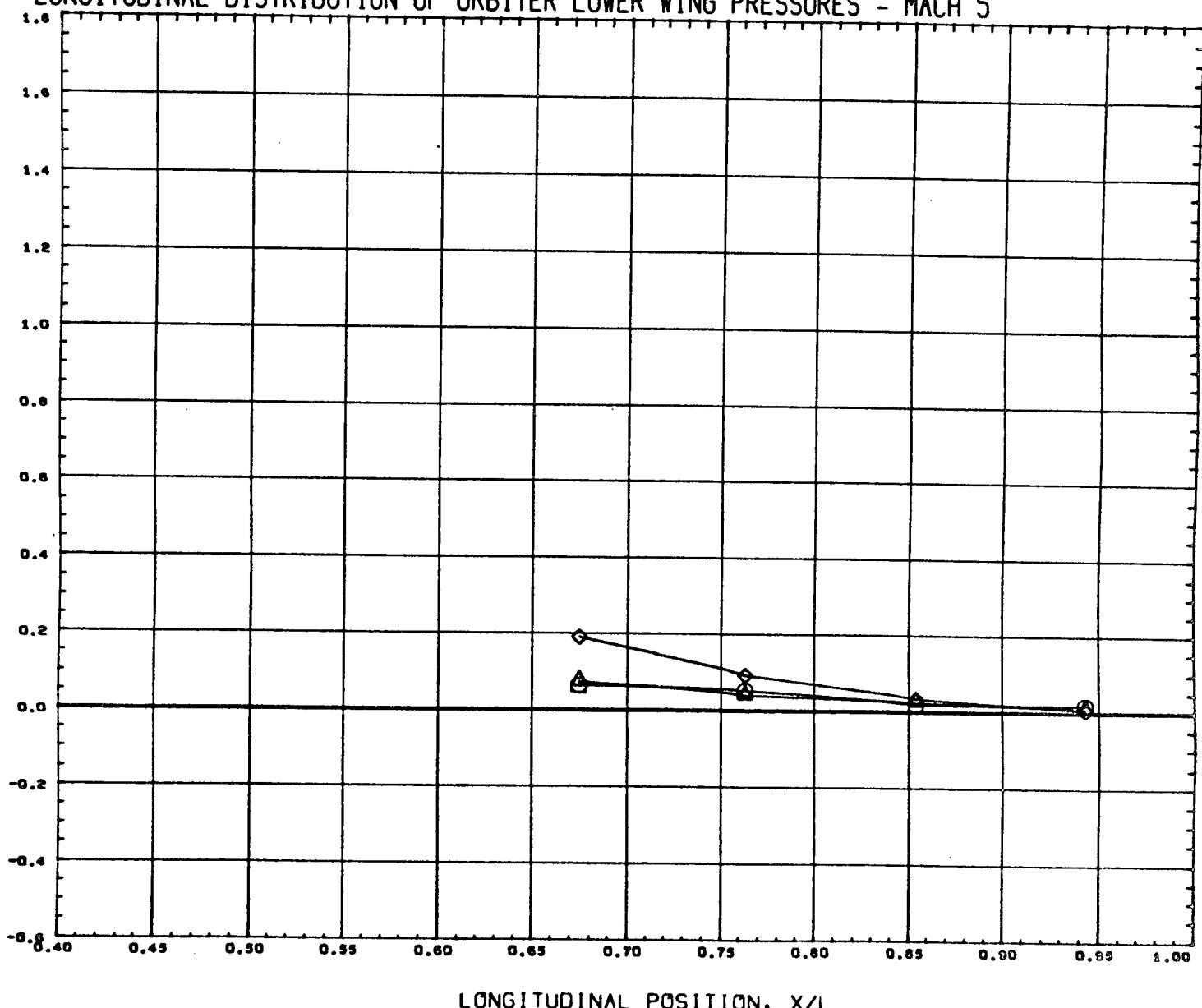
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8573•

PAGE 845

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL DELTAX Y/B DELTAZ

— 0.144 0.399 0.151

△ 0.103

◊ 0.226

PARAMETRIC VALUES

ALPHAB	MACH	4.970
ALPHAT	ORBPOW	0.000
BSTPOW		

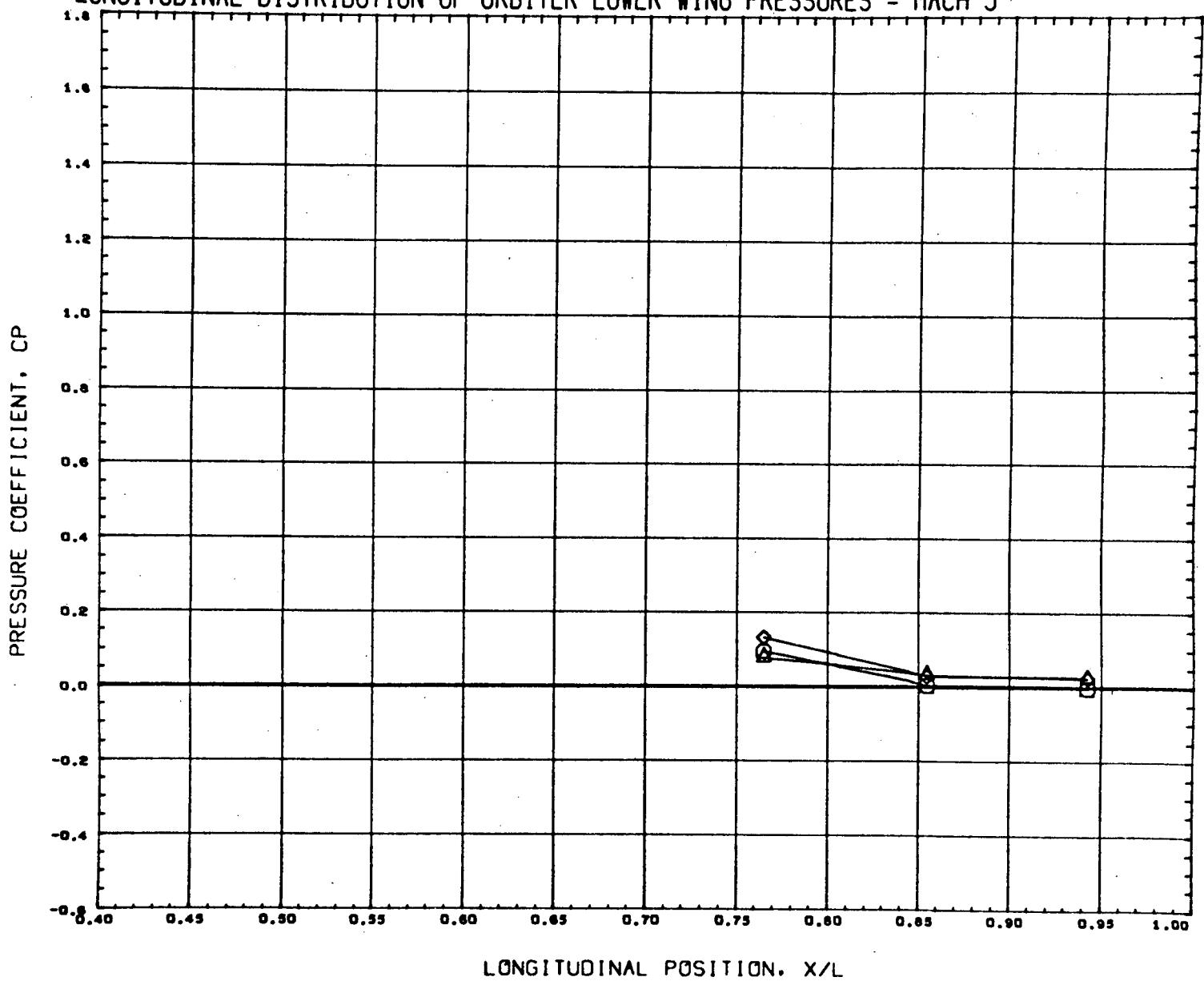
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8573•

PAGE 846

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL DELTAX Y/B DELTAZ

○ 0.144 0.968 0.191

△ 0.103 0.968 0.191

◊ 0.226 0.968 0.191

PARAMETRIC VALUES

	ALPHAB	MACH	ORBPOW
ALPHAI	0.001	4.970	0.000
BSTPOW	0.000		

REFERENCE FILE

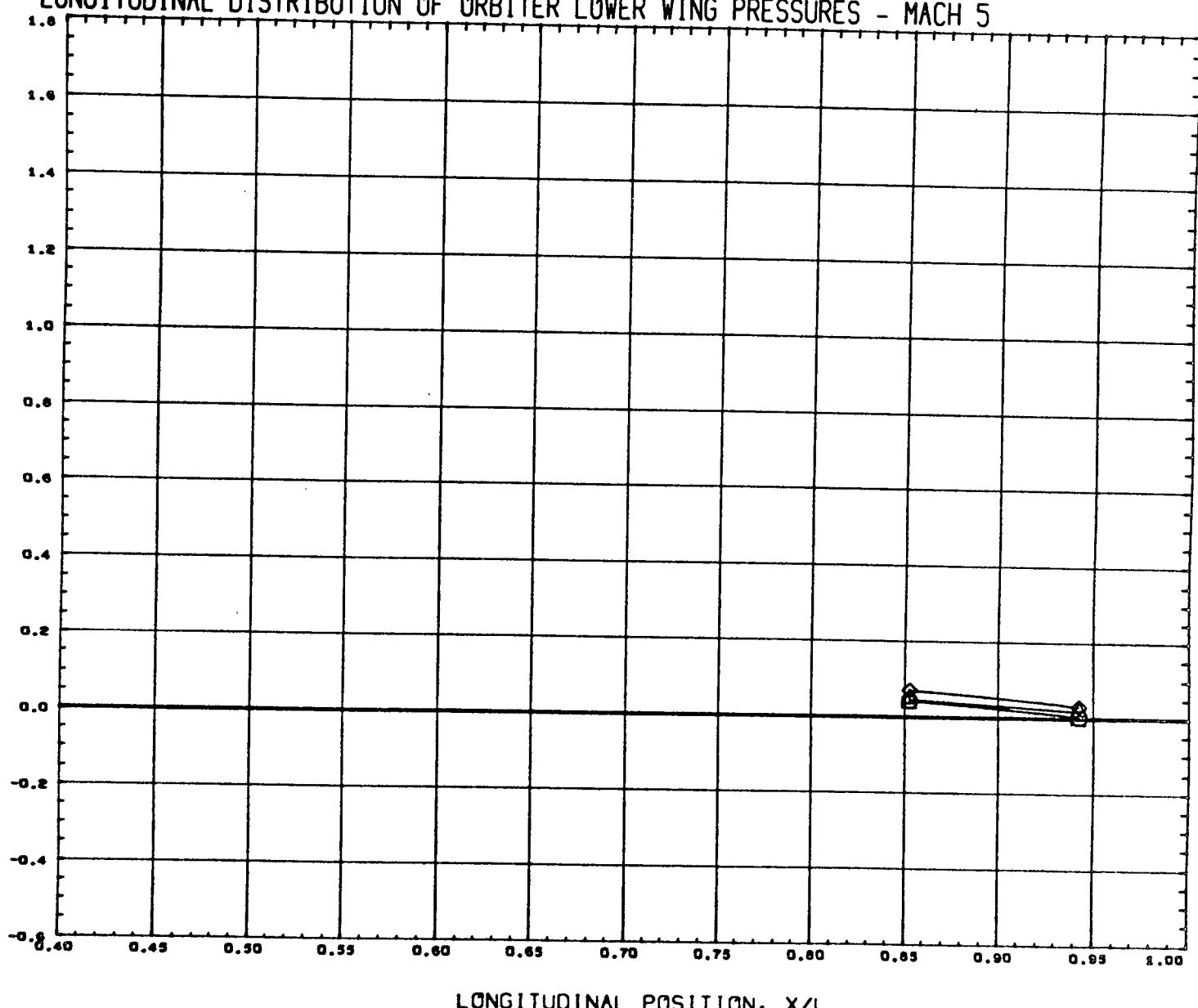
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8573•

PAGE 847

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMOL DELTAX T/B DELTAZ
 C - 0.144 0.736 0.151
 A 0.103
 D 0.226

LONGITUDINAL POSITION, X/L

PARAMETRIC VALUES		
ALPHAB	0.001	MACH 4.970
ALPHAI	0.000	ORBPOW 0.000
BSTPOW	0.000	

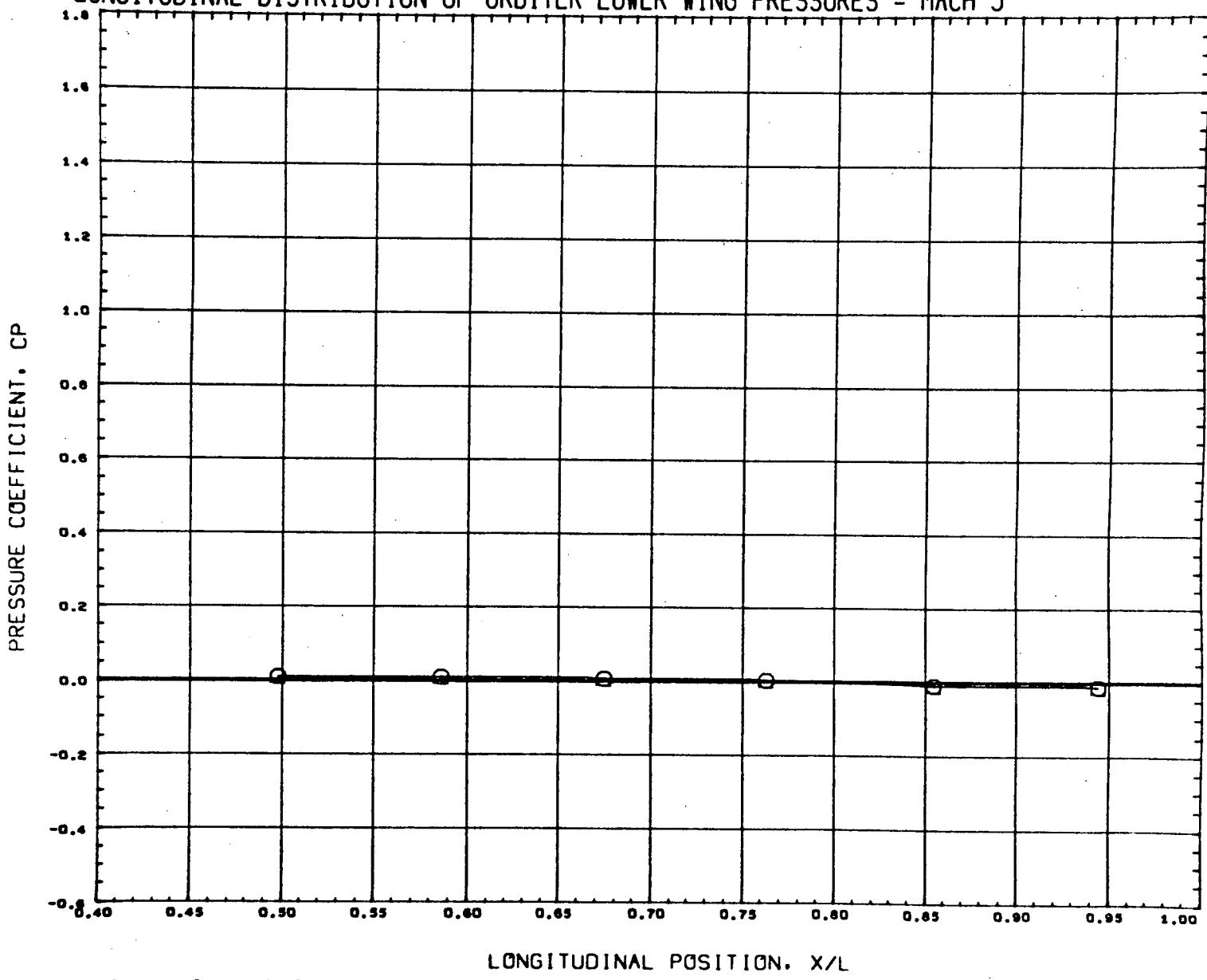
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8573•

PAGE 848

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL DELTAX Y/B DELTAZ

O 0.920 0.230 0.905

PARAMETRIC VALUES

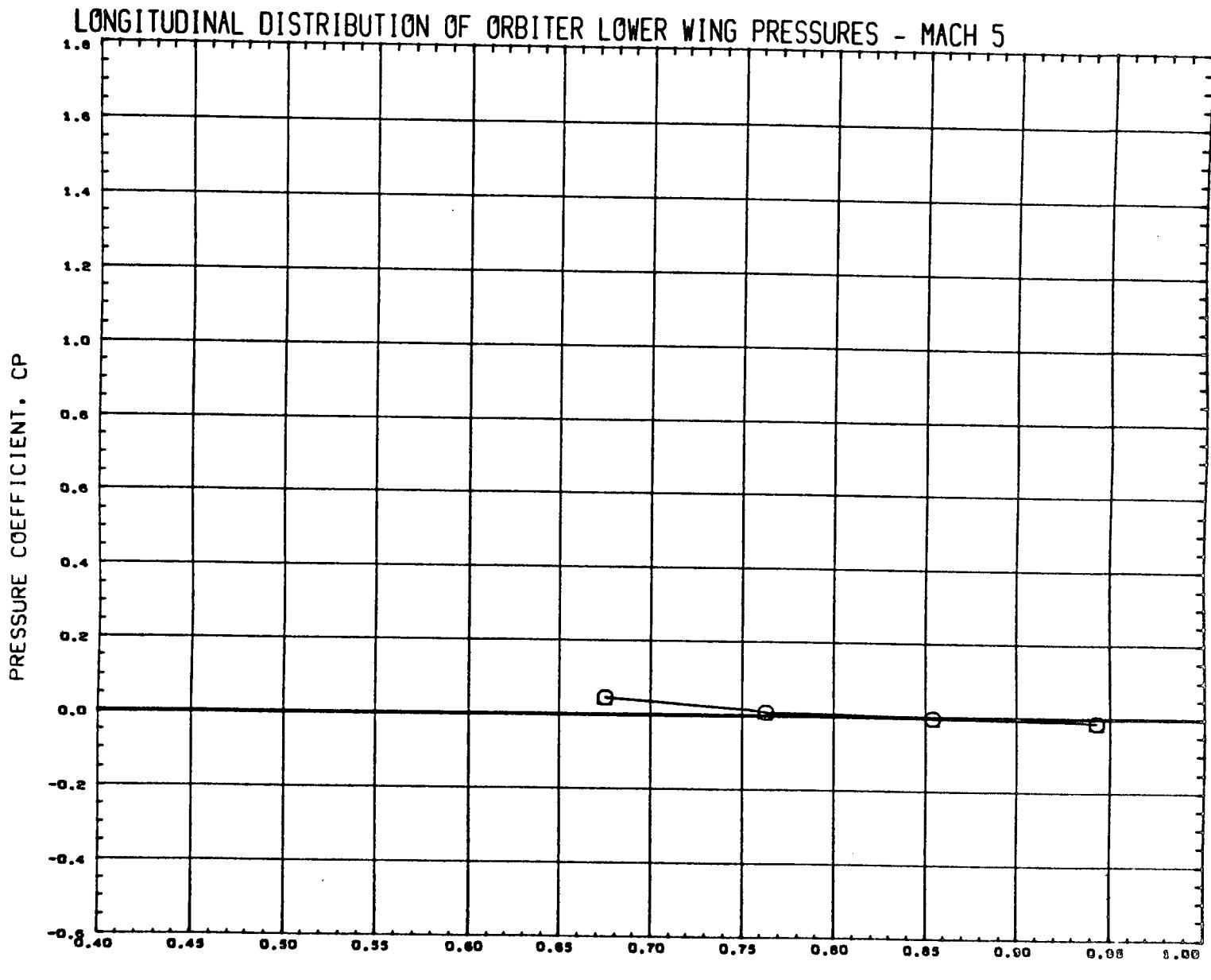
ALPHAB	0.001	MACH	4.970
ALPHAI	0.000	ORBPOW	0.000
BSPW	0.000		

REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8573•

PAGE 849

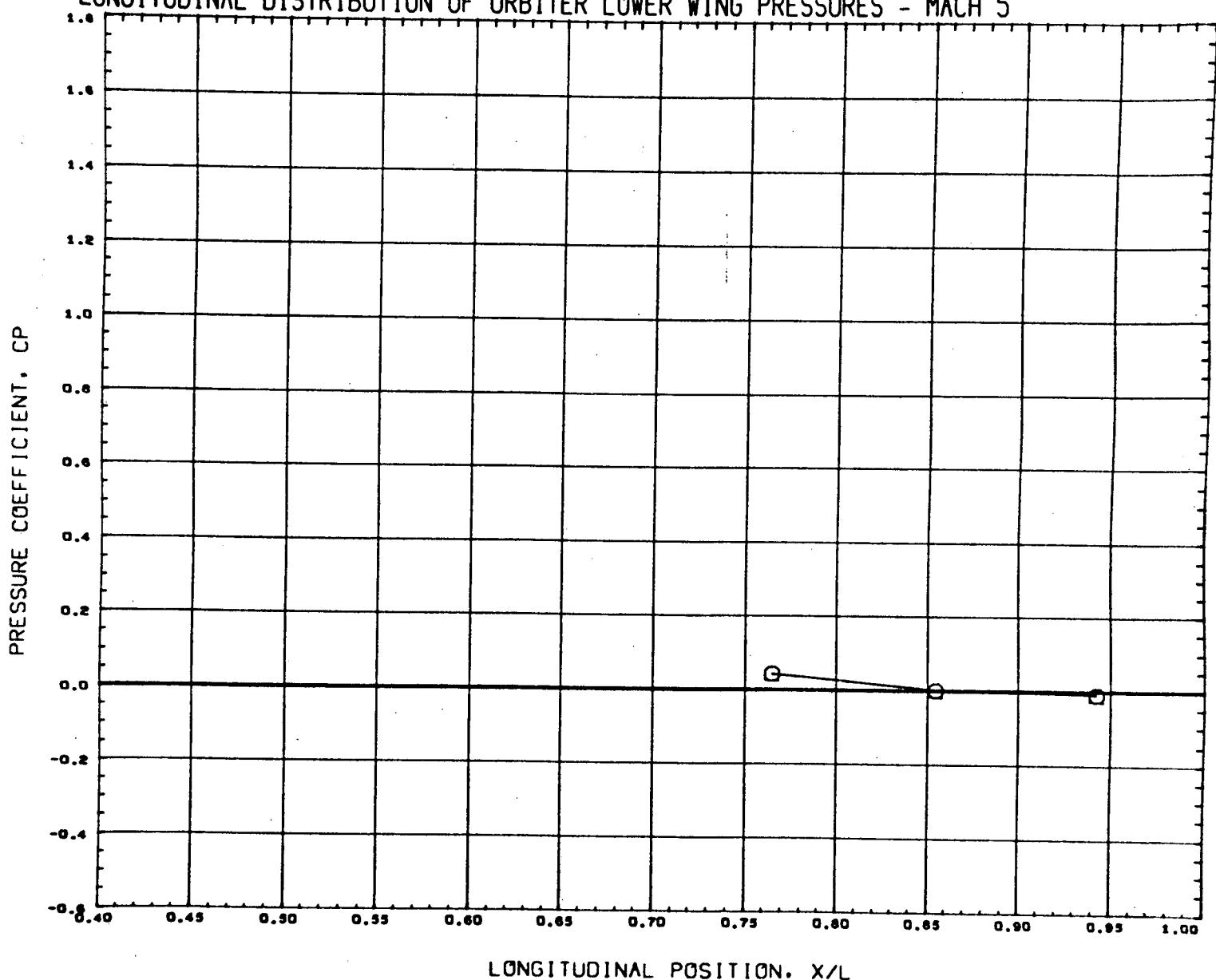


REFERENCE FILE
 AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8573•

PAGE 850

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL DELTAX T/B DELTAZ

 G 0.920 0.969 0.908

PARAMETRIC VALUES

	ALPHAB	MACH
ALPHAI	0.001	4.970
BSTPOW	0.000	0.000

REFERENCE FILE

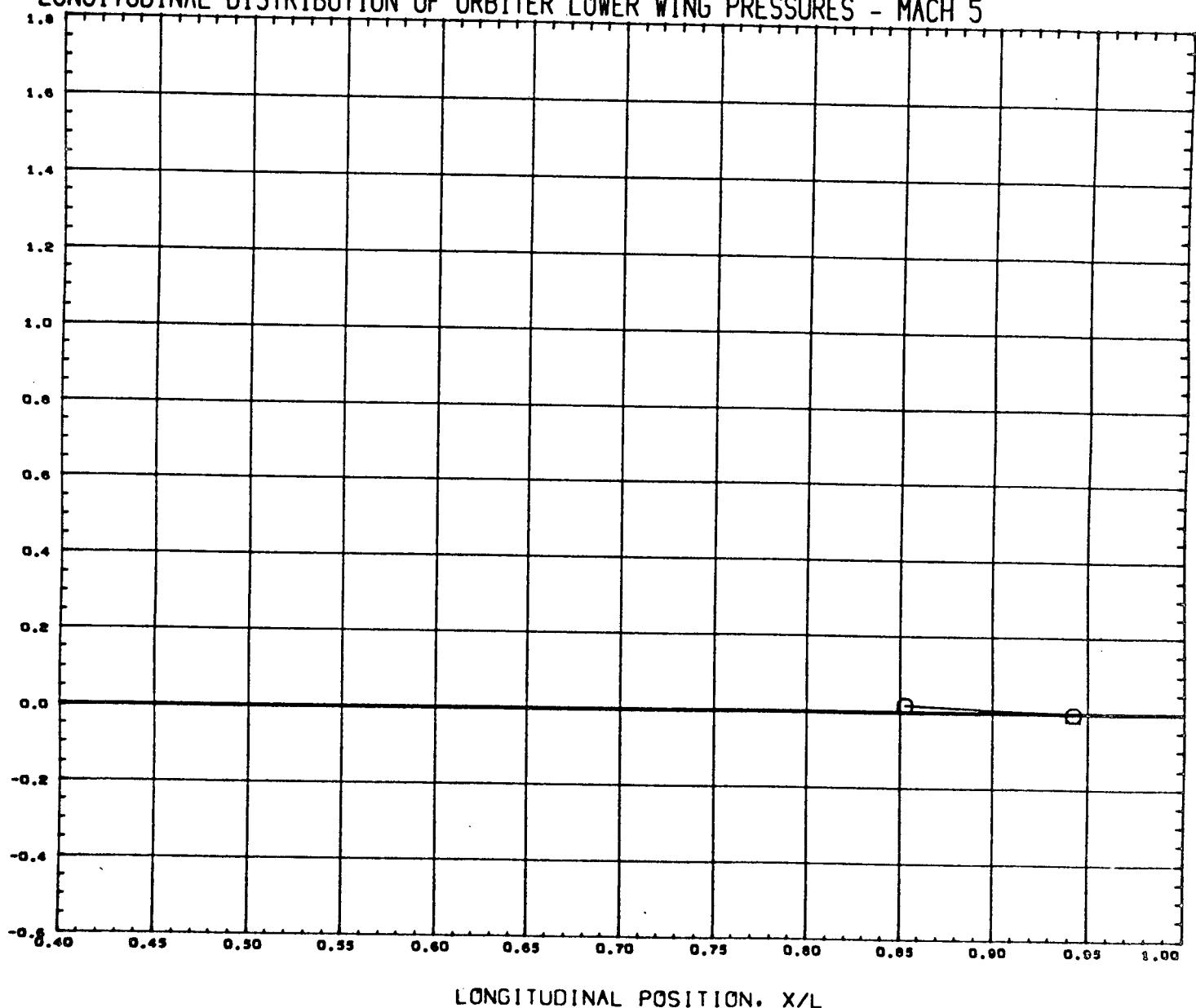
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8573•

PAGE 851

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



STMDCL DELTAX Y/B DELTAZ
0.320 0.736 0.906

	ALPHAB	MACH	ORBPOW
ALPHAI	0.001	4.970	0.000
BSTPOW	0.000		

REFERENCE FILE

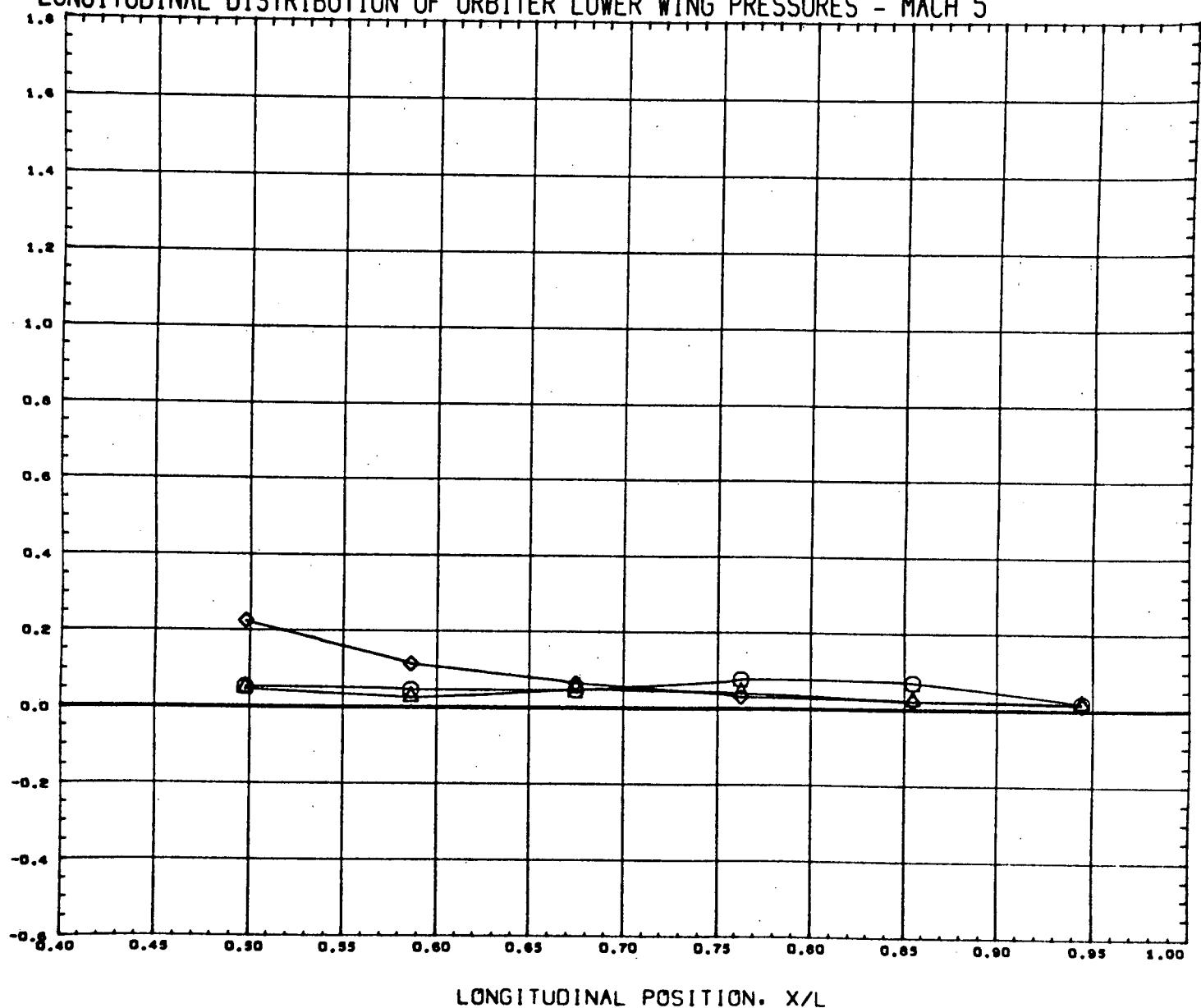
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8573•

PAGE 852

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL DELTAX T/B DELTAZ

Δ - 0.144 0.230 0.120

Δ 0.103 0.226

◊ 0.226

PARAMETRIC VALUES

ALPHAB	4.994	MACH	4.970
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

REFERENCE FILE

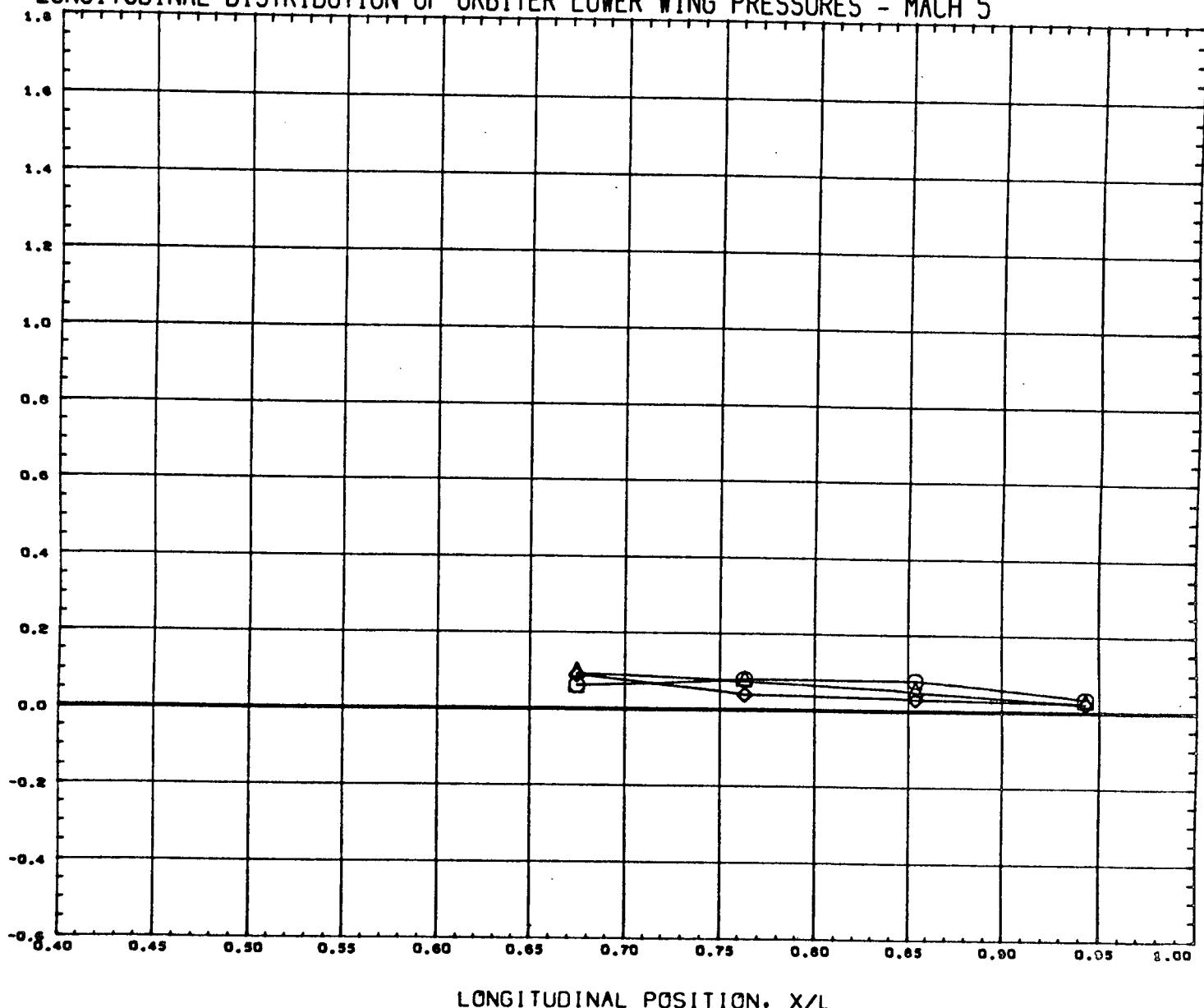
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8574•

PAGE 853

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	T/8	DELTA Z
-	0.144	0.399	0.120
△	0.103		
◊	0.226		

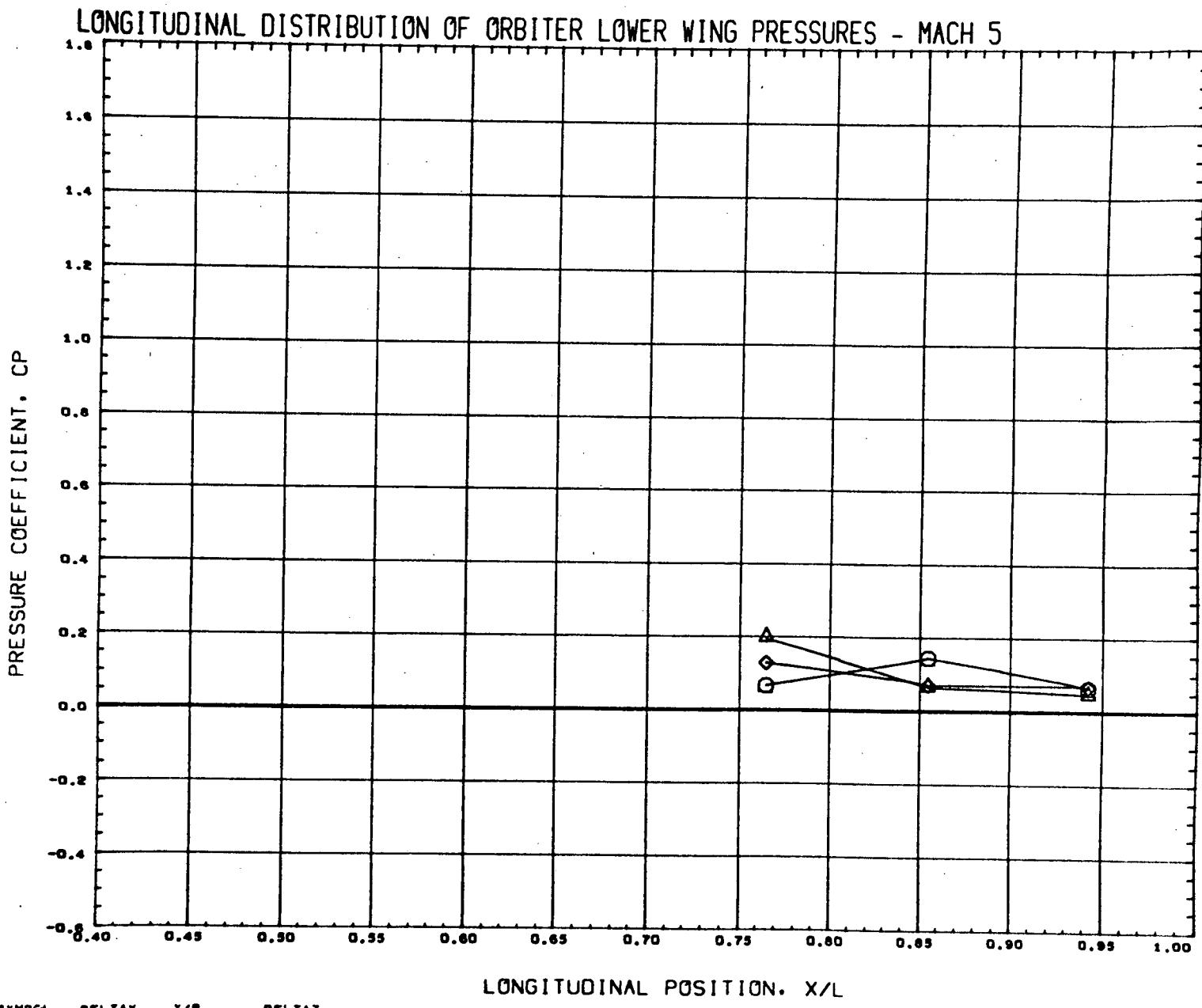
PARAMETRIC VALUES			
ALPHAB	4.994	MACH	4.970
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8574•

PAGE 854



SYMBOL DELTAX T/B DELTAZ
 Δ -0.144 0.569 0.120
 \diamond 0.103
 \square 0.226

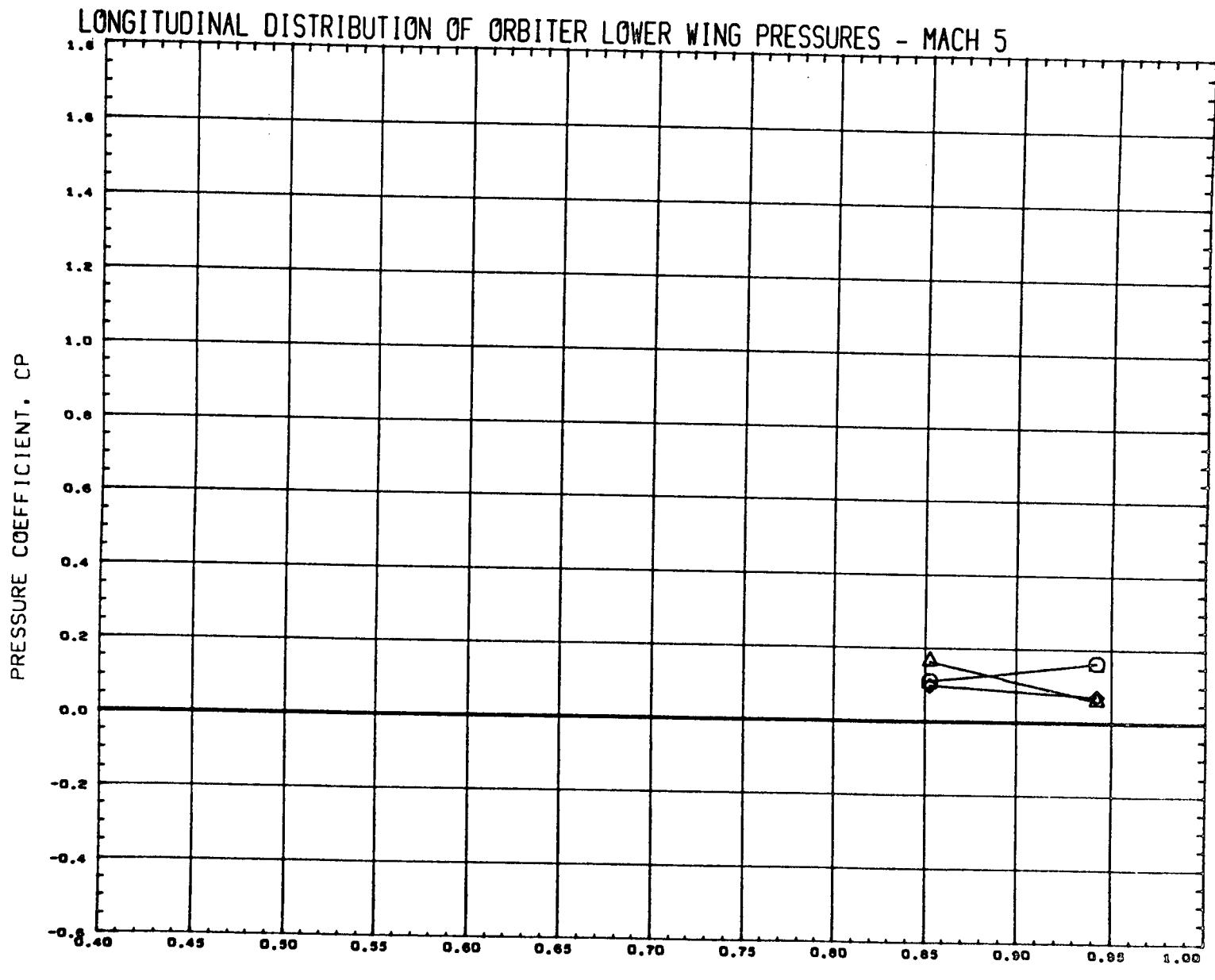
PARAMETRIC VALUES
 ALPHAB 4.994
 ALPHAI 0.000
 BSPW 0.000
 MACH 4.970
 ORBPW 0.000

REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8574•

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PARAMETRIC VALUES

ALPHAB	4.994	MACH	4.970
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

REFERENCE FILE

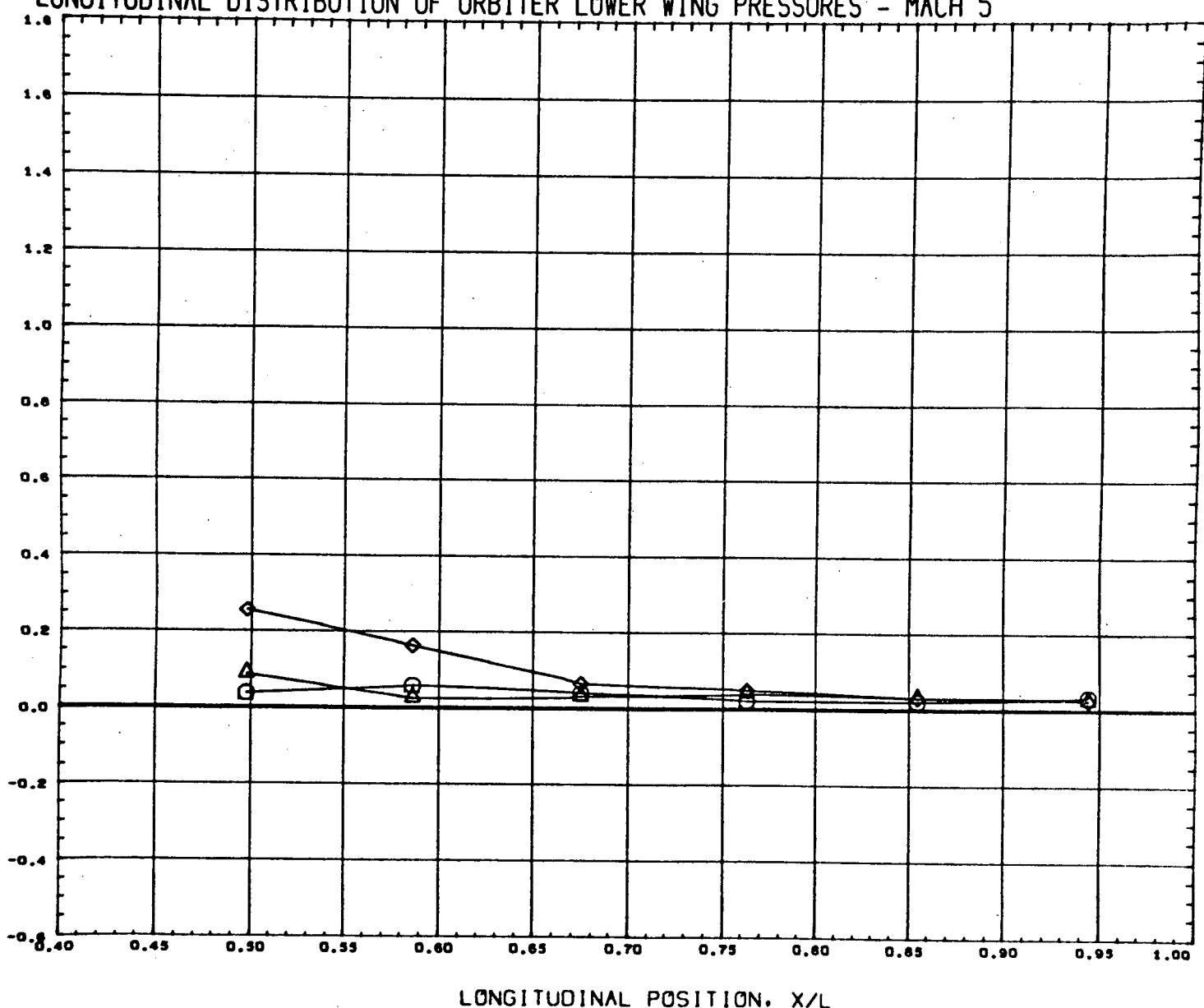
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8574•

PAGE 856

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION. X/L

SYMBOL	DELTA X	T/B	DELTA Z
○	- 0.144	0.230	0.151
△	0.103		
◊	0.226		

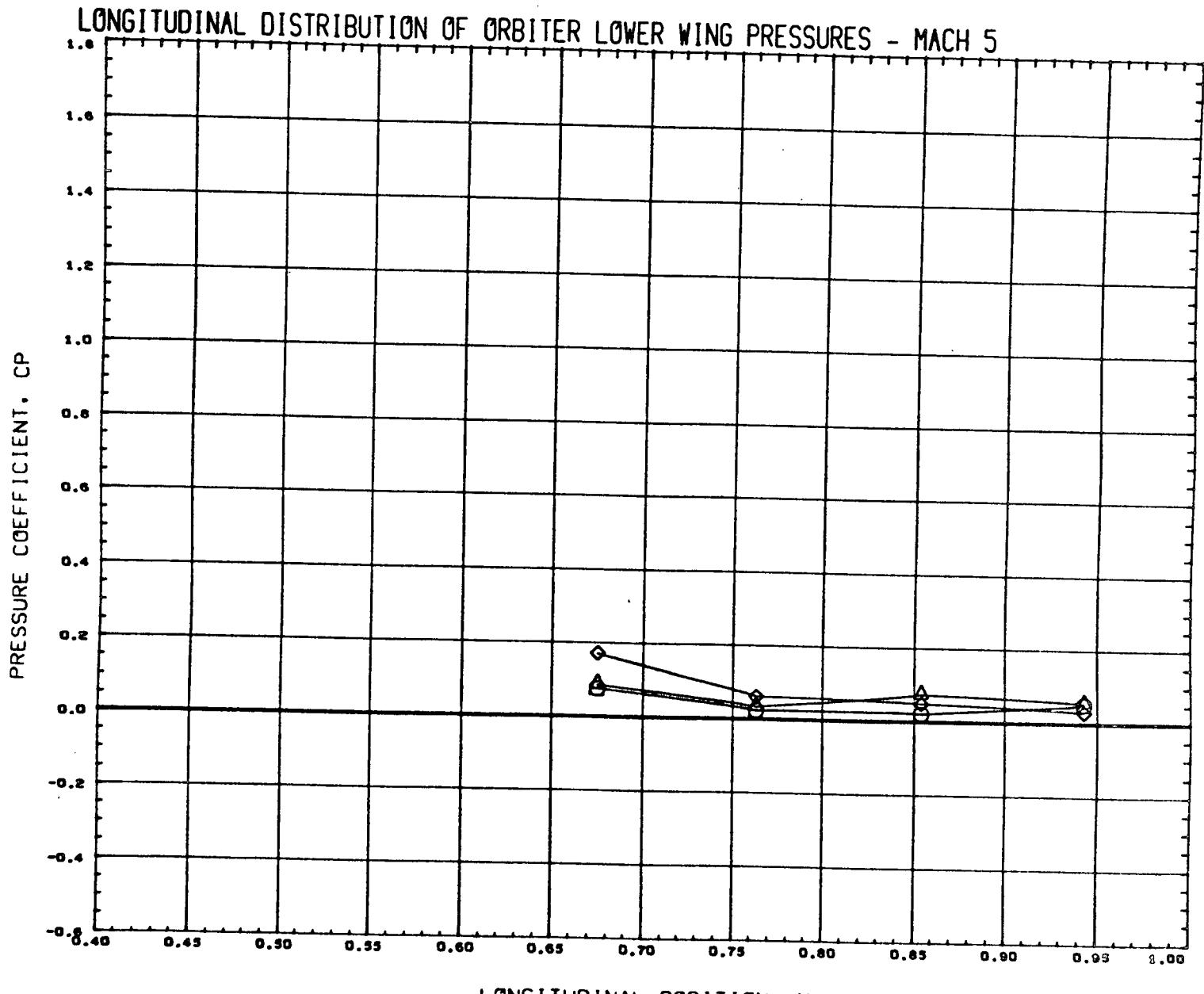
PARAMETRIC VALUES		
ALPHAB	4.994	MACH 4.970
ALPHAI	0.000	ORBPOW 0.000
BSTPOW	0.000	

REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8574•

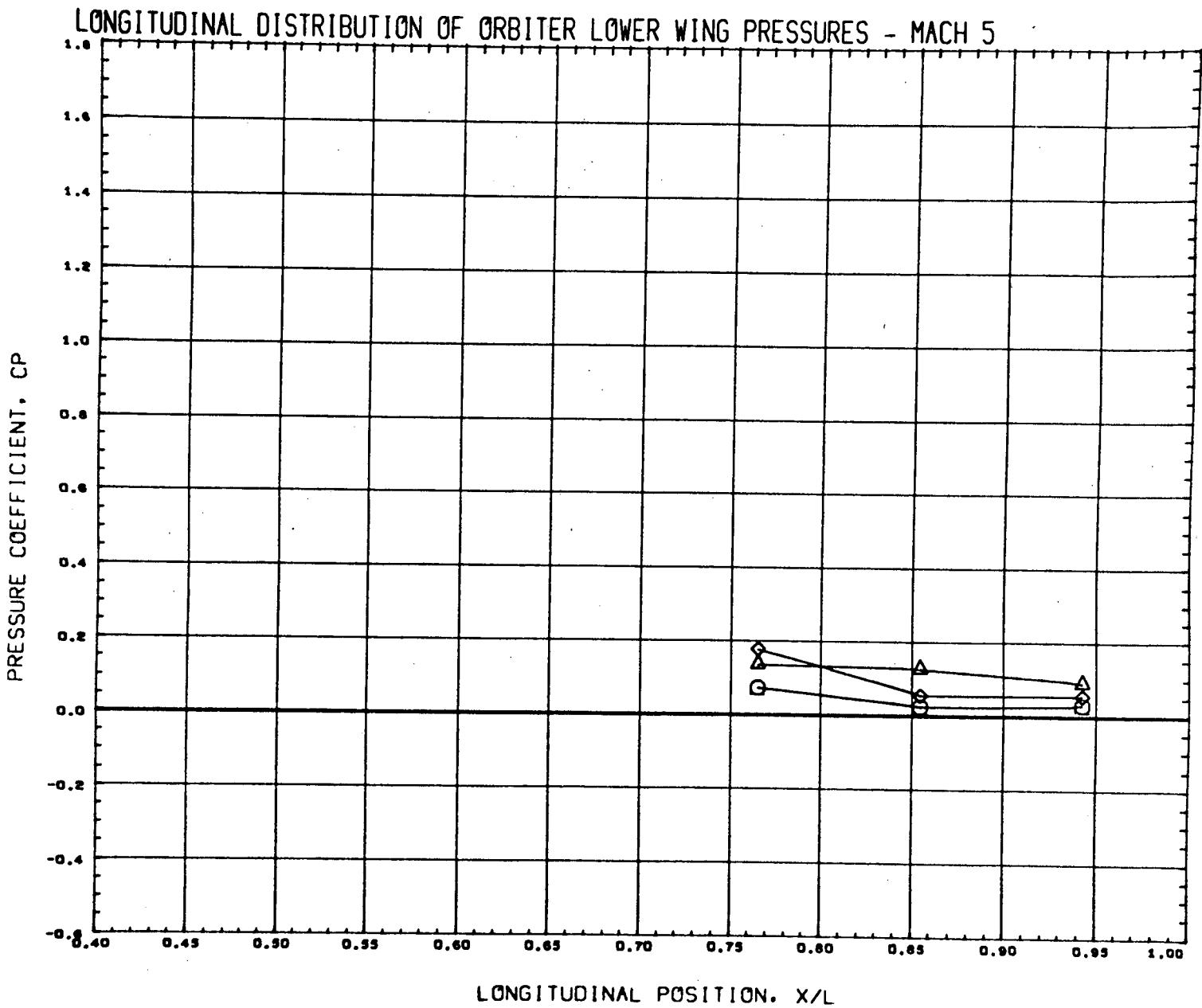
PAGE 857



REFERENCE FILE
 AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8574•

PARAMETRIC VALUES			
ALPHAB	4.994	MACH	4.970
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		



SYMBOL DELTAX T/B DELTAZ
 Δ - 0.144 0.569 0.151
 \square 0.103
 \diamond 0.226

PARAMETRIC VALUES
ALPHAB 4.994 MACH 4.970
ALPHAT 0.000 ORBPOW 0.000
BSTPOW 0.000

REFERENCE FILE

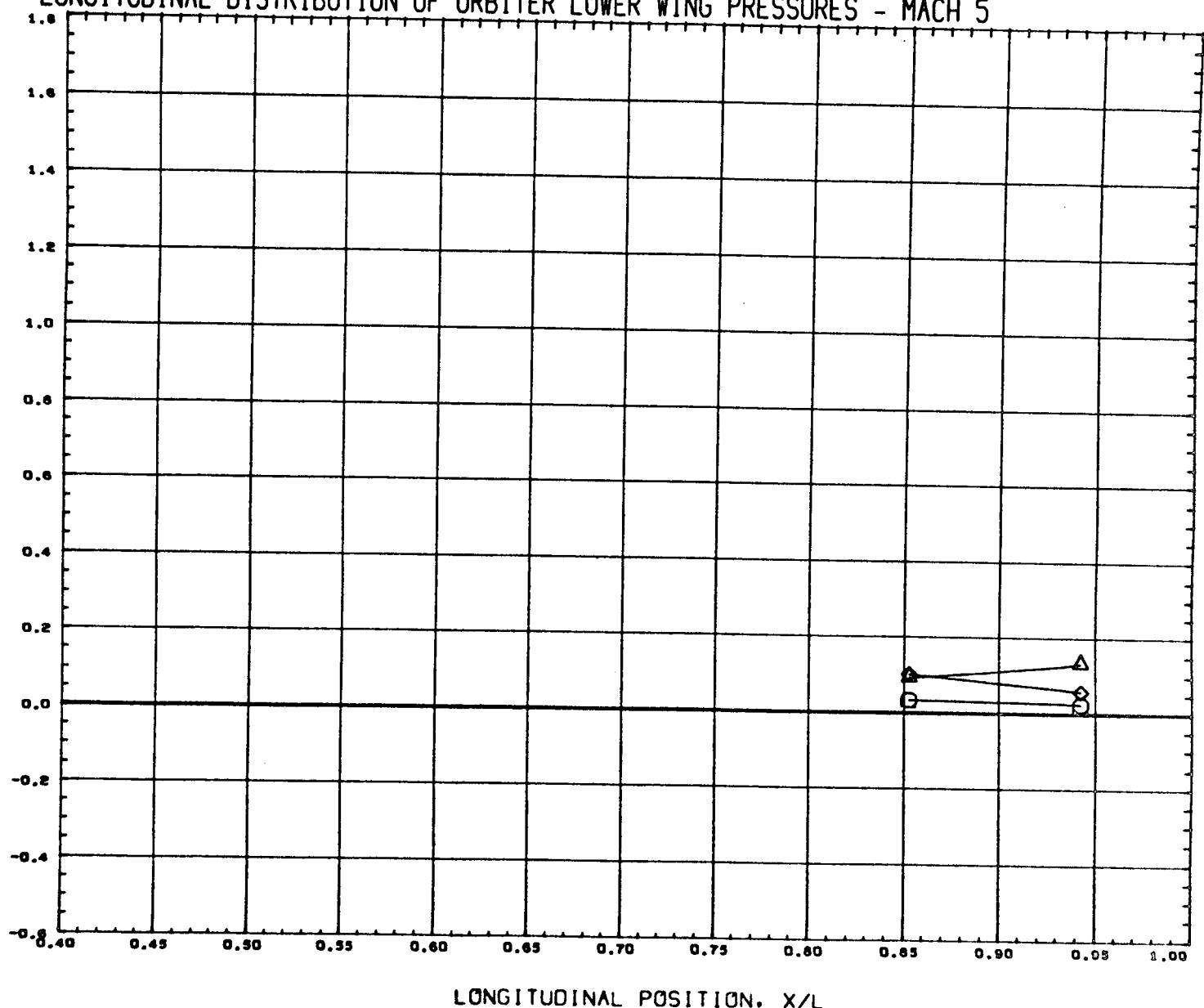
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8574•

PAGE 859

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL DELTAX T/B DELTAZ
□ - 0.144 0.739 0.151
△ 0.103
◊ 0.226

LONGITUDINAL POSITION, X/L

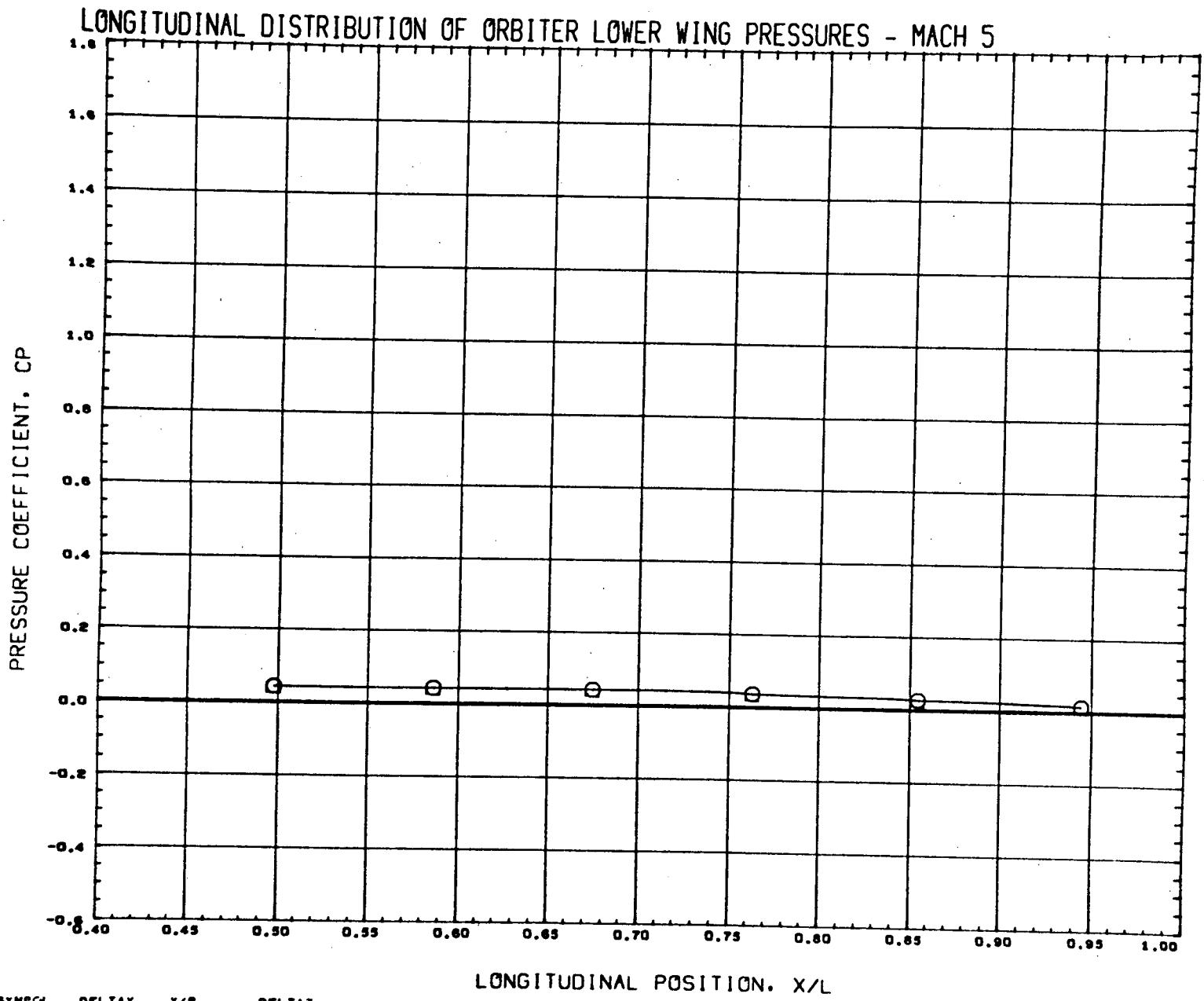
PARAMETRIC VALUES			
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ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8574•

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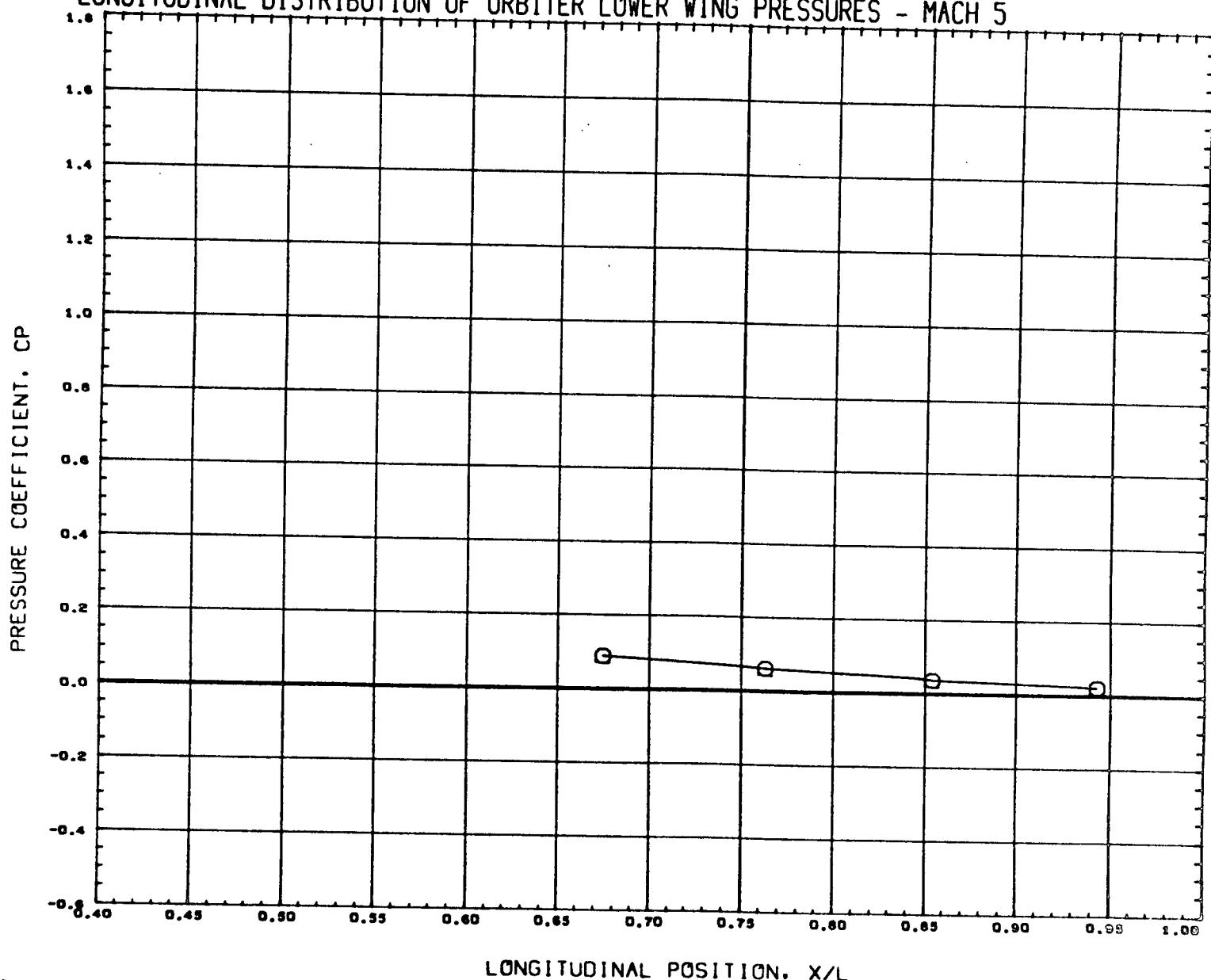
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AEDC VAI163 MDAC ORBITER (LOWER WING)

•HT8574•

PAGE 861

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



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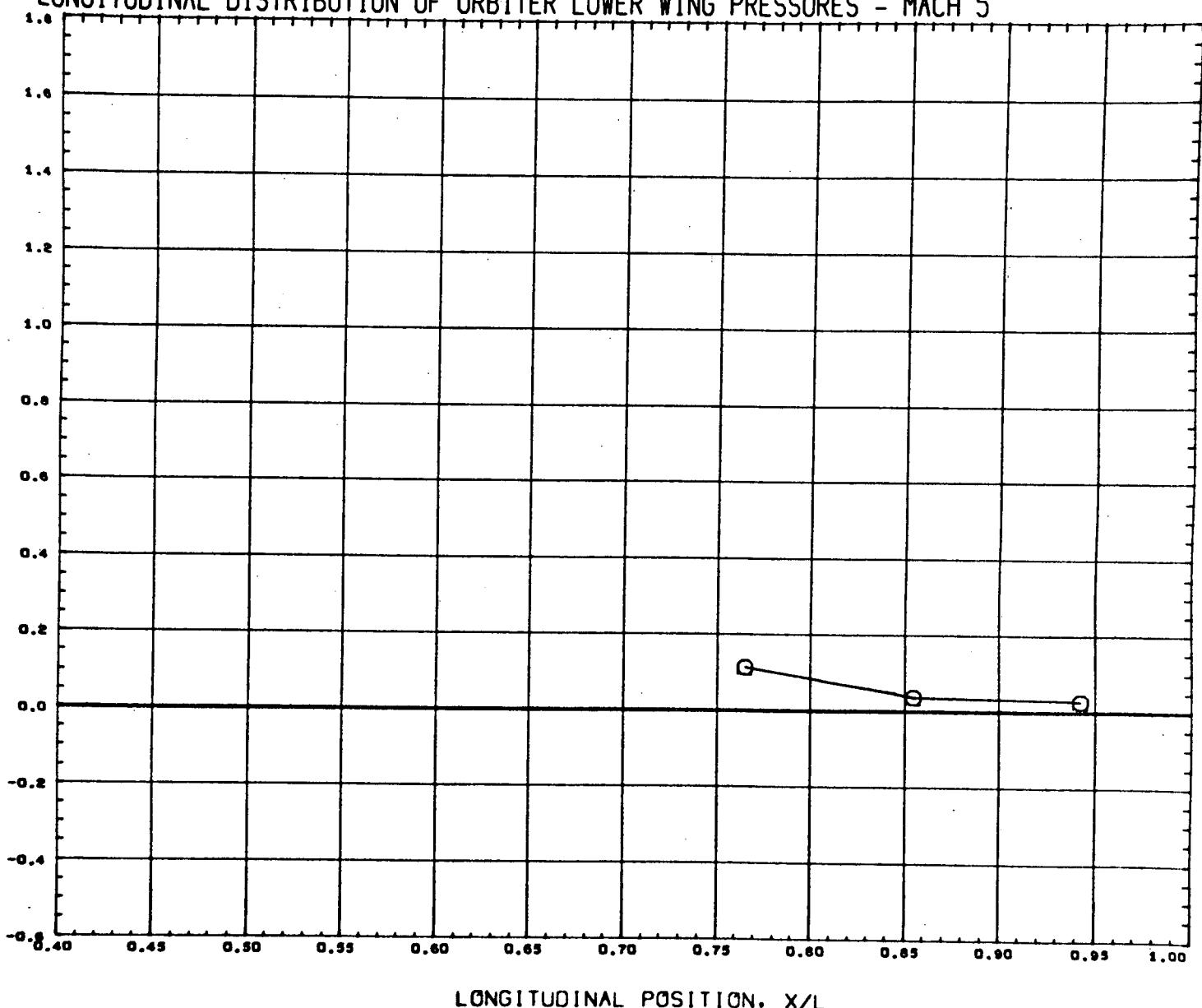
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8574•

PAGE 862

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION, X/L

SYMBOL DELTAX T/B DELTAZ
○ 0.320 0.368 0.909

PARAMETRIC VALUES			
ALPHAB	4.994	MACH	4.970
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

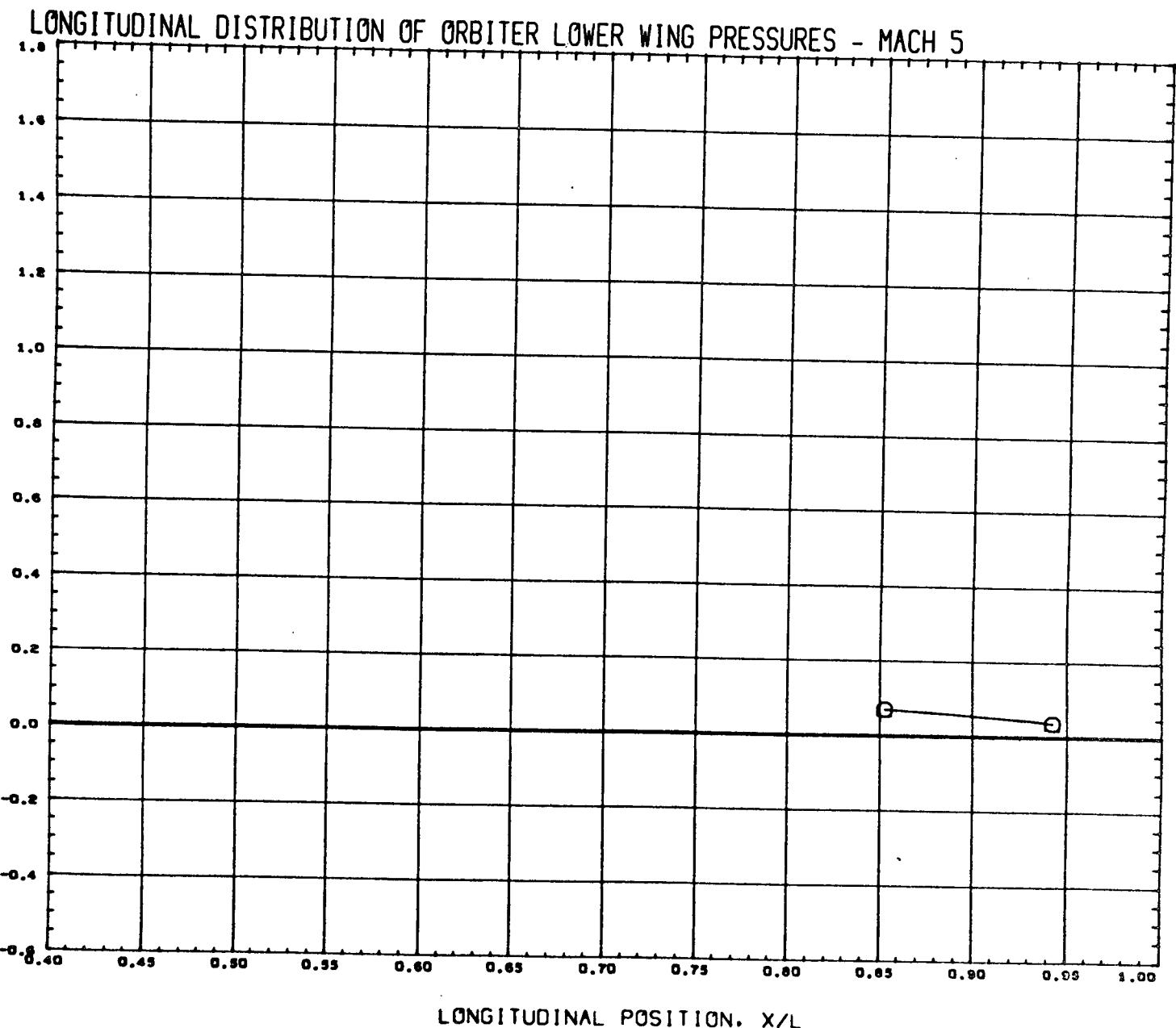
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8574•

PAGE 863

PRESSURE COEFFICIENT, CP



SYMBOL DELTA X T/B DELTA Z
C 0.920 0.736 0.906

PARAMETRIC VALUES
ALPHAB 4.994 MACH 4.970
ALPHAI 0.000 ORBPOW 0.000
BBTPOW 0.000

REFERENCE FILE

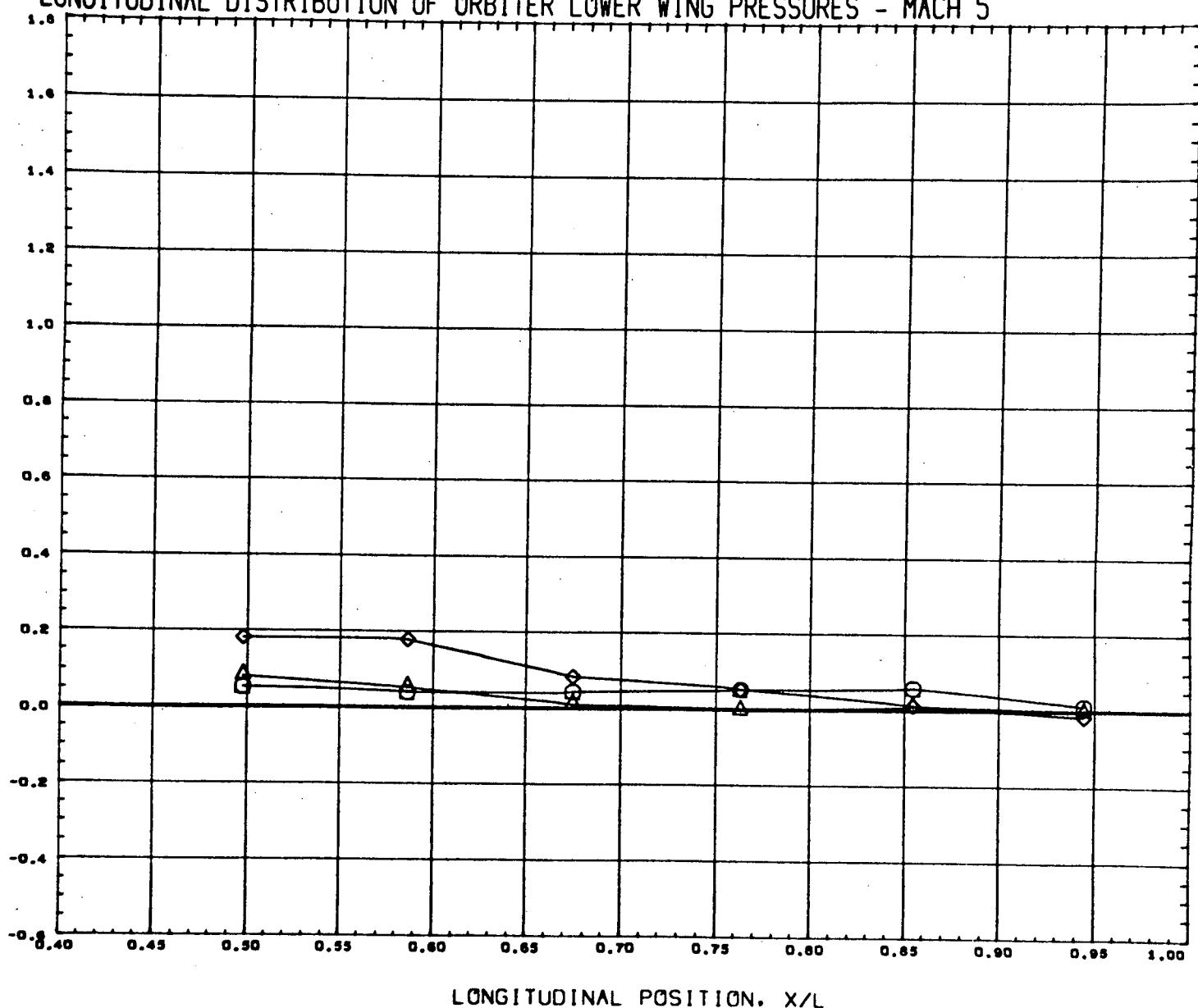
AEDC VAI163 MDAC ORBITER (LOWER WING)

•HT8574•

PAGE 864

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL DELTAX Y/B DELTAZ

\square - 0.144 0.230 0.120

\triangle 0.103 0.000 0.000

\diamond 0.226 0.000 0.000

PARAMETRIC VALUES

ALPHAB 0.000 MACH 5.040

ALPHAI 0.000 ORBPOW 0.000

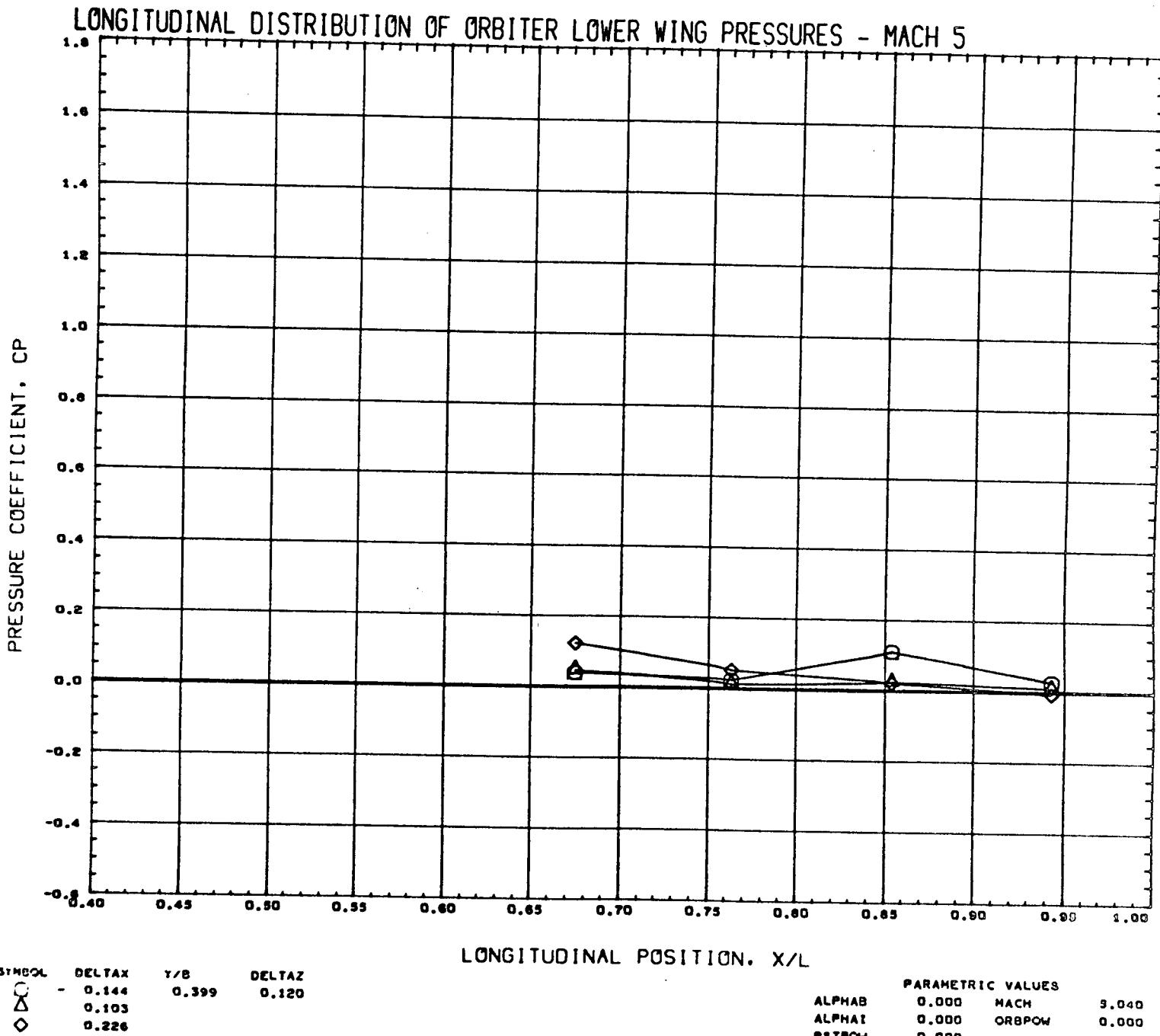
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REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8583•

PAGE 865

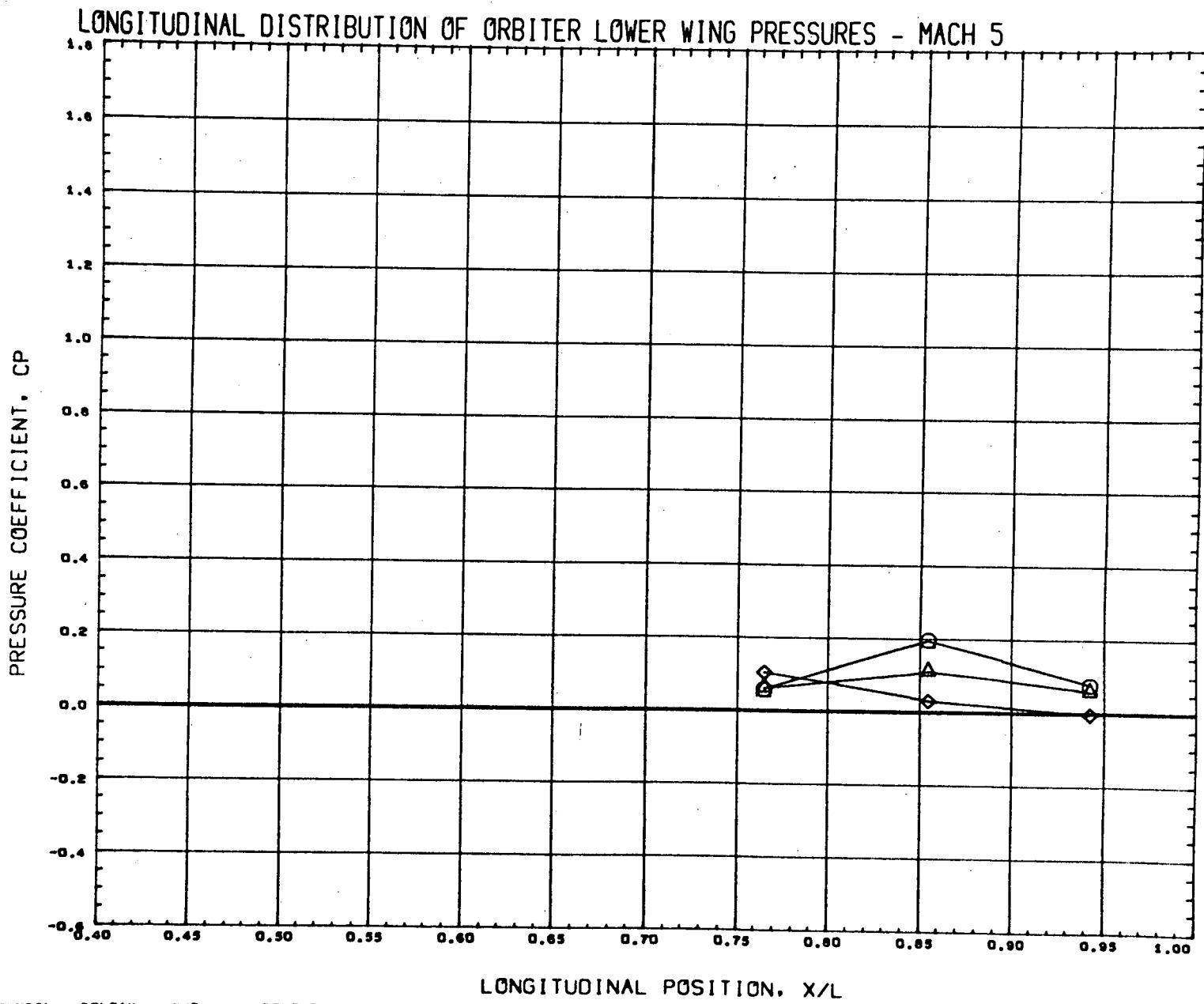


REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8583•

PAGE 866



SYMBOL DELTAX T/B DELTAZ
 C - 0.144 0.560 0.120
 Δ 0.103
 ◊ 0.226

PARAMETRIC VALUES
 ALPHAB 0.000 MACH 5.040
 ALPHAT 0.000 ORBPOW 0.000
 BSTPOW 0.000

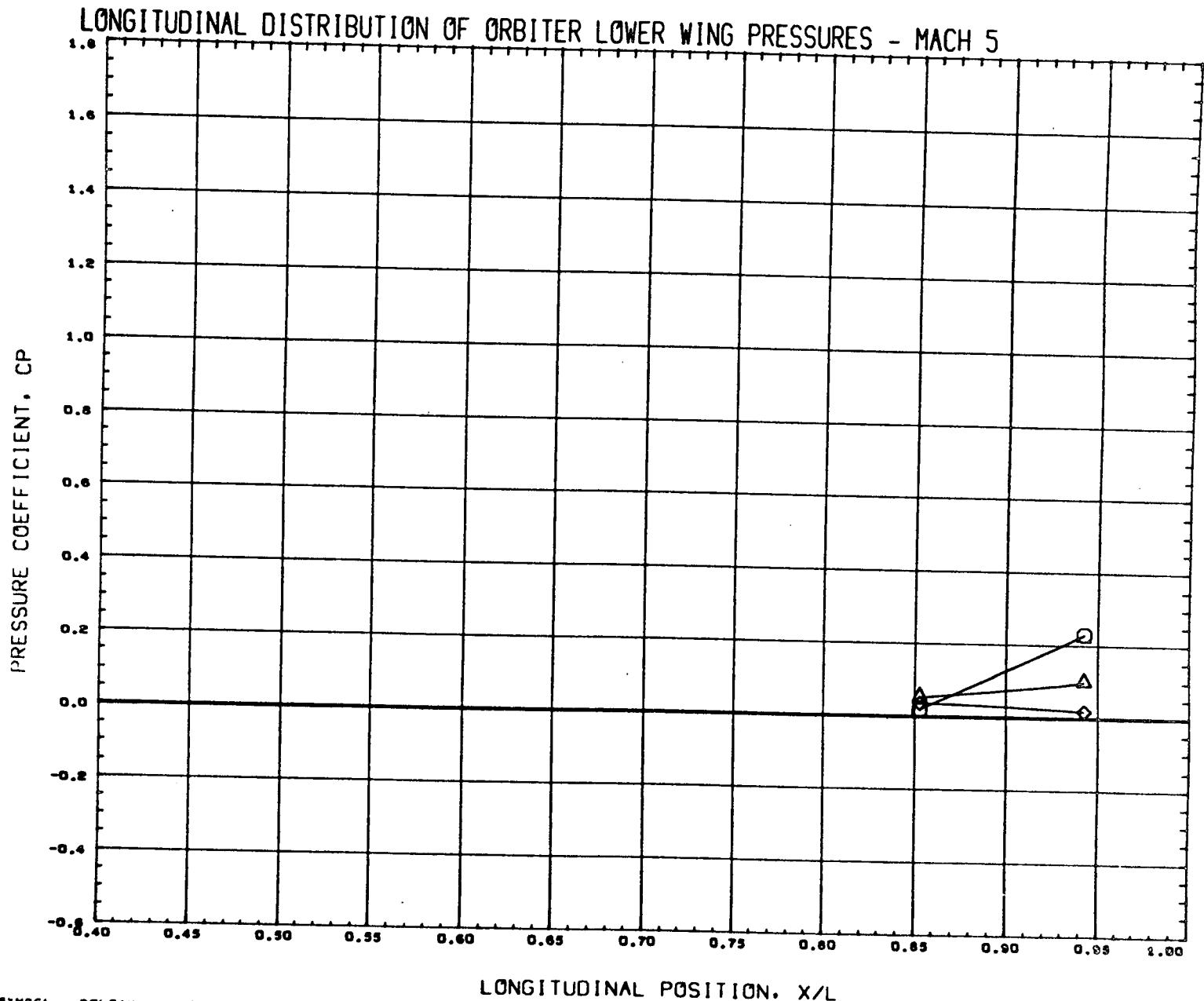
REFERENCE FILE

AEDC VAI163 MDAC ORBITER (LOWER WING)

•HT8583•

PAGE 867

C.8



PARAMETRIC VALUES

	ALPHAB	MACH
	0.000	5.040
	ALPHAI	ORBPOW
	0.000	0.000
	BSTPOW	
	0.000	

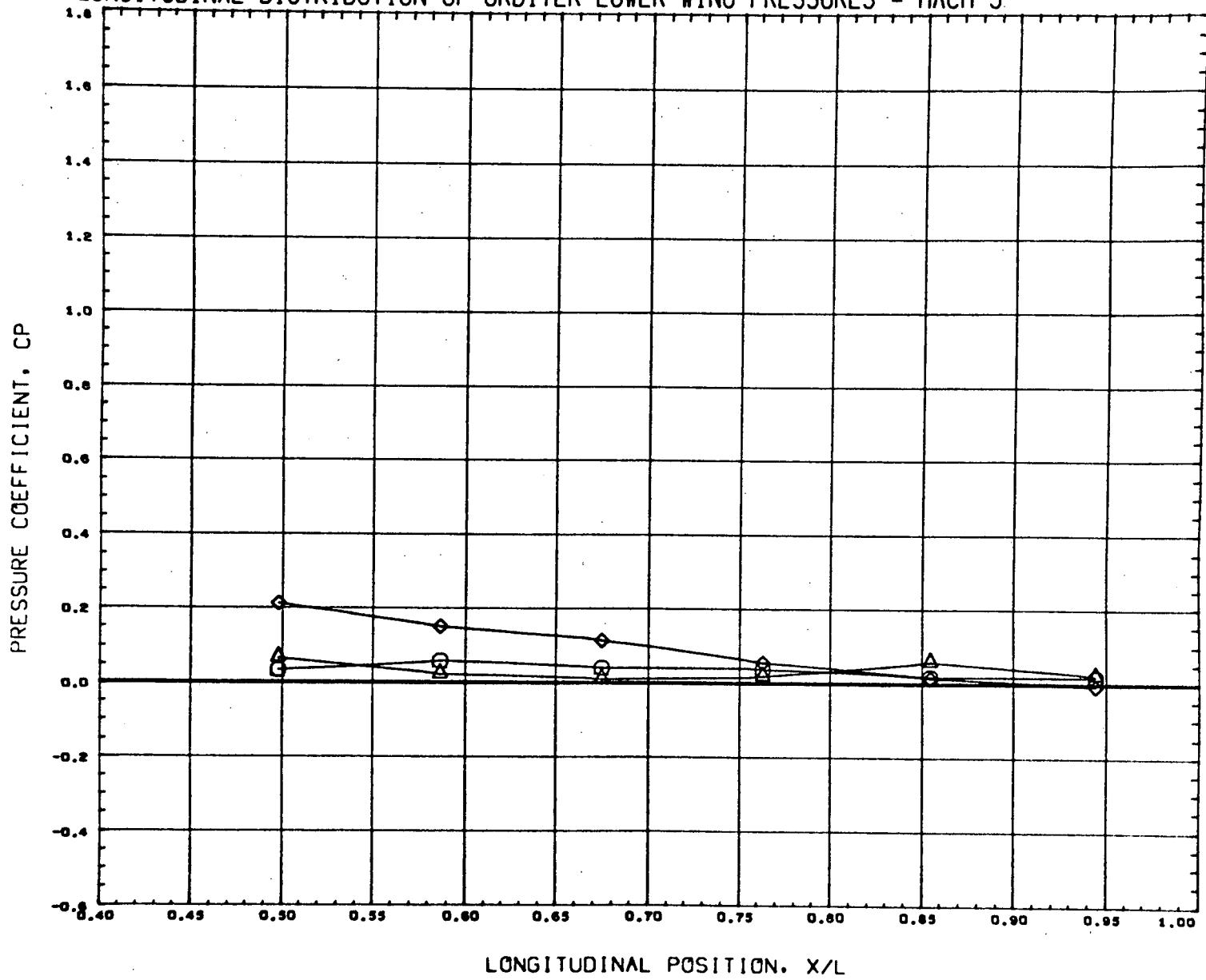
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AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8583•

PAGE 868

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL DELTAX Y/B DELTAZ

- \circ - 0.144 0.230 0.151
- Δ 0.103
- \diamond 0.226

LONGITUDINAL POSITION. X/L

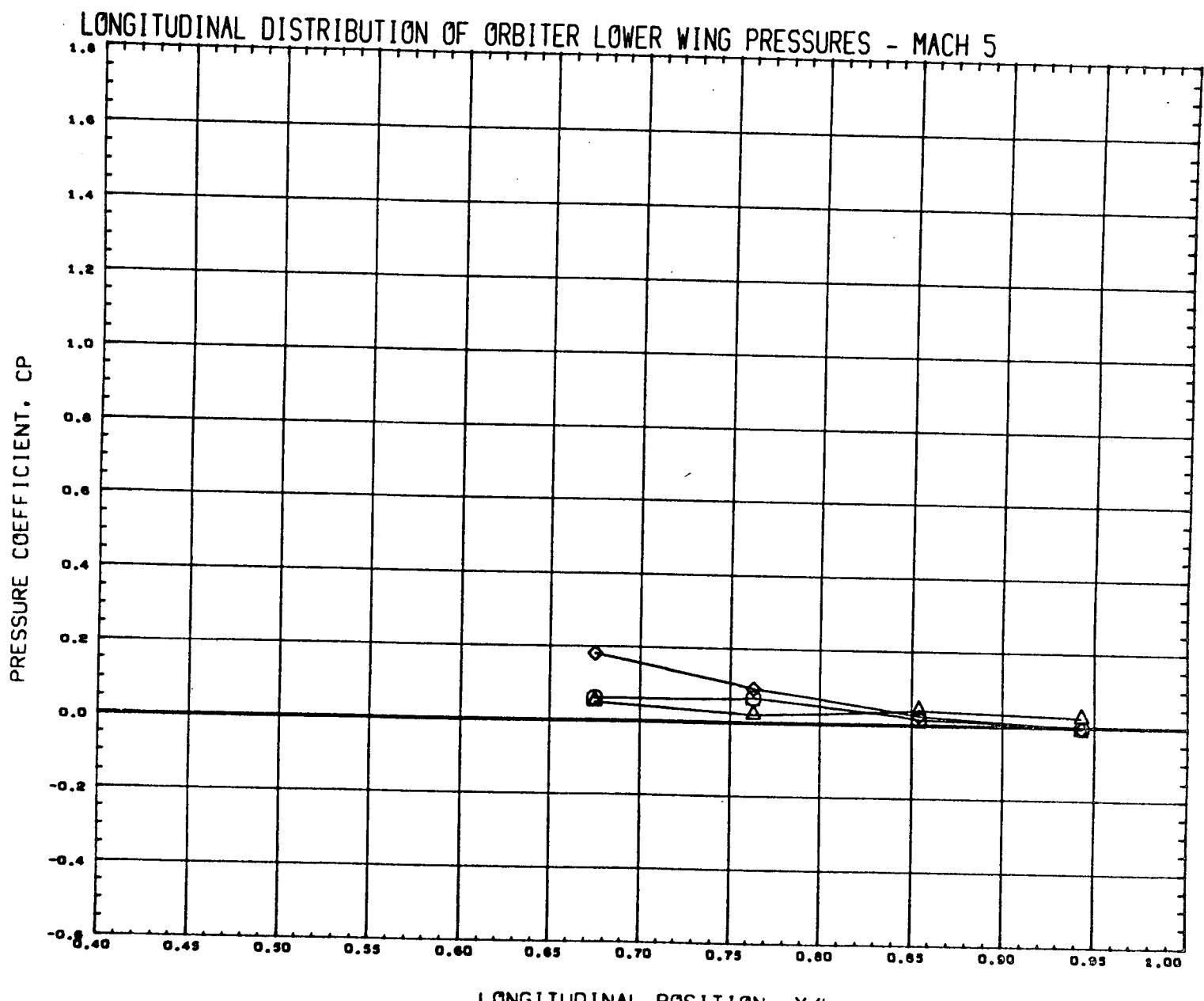
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ALPHAT	0.000	ORBPOW 0.000
BSTPOW	0.000	

REFERENCE FILE

AEDC VA1163 MCAC ORBITER (LOWER WING)

•HT8583•

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REFERENCE FILE
AEDC VA1163 MDAC ORBITER (LOWER WING)

LONGITUDINAL POSITION, X/L

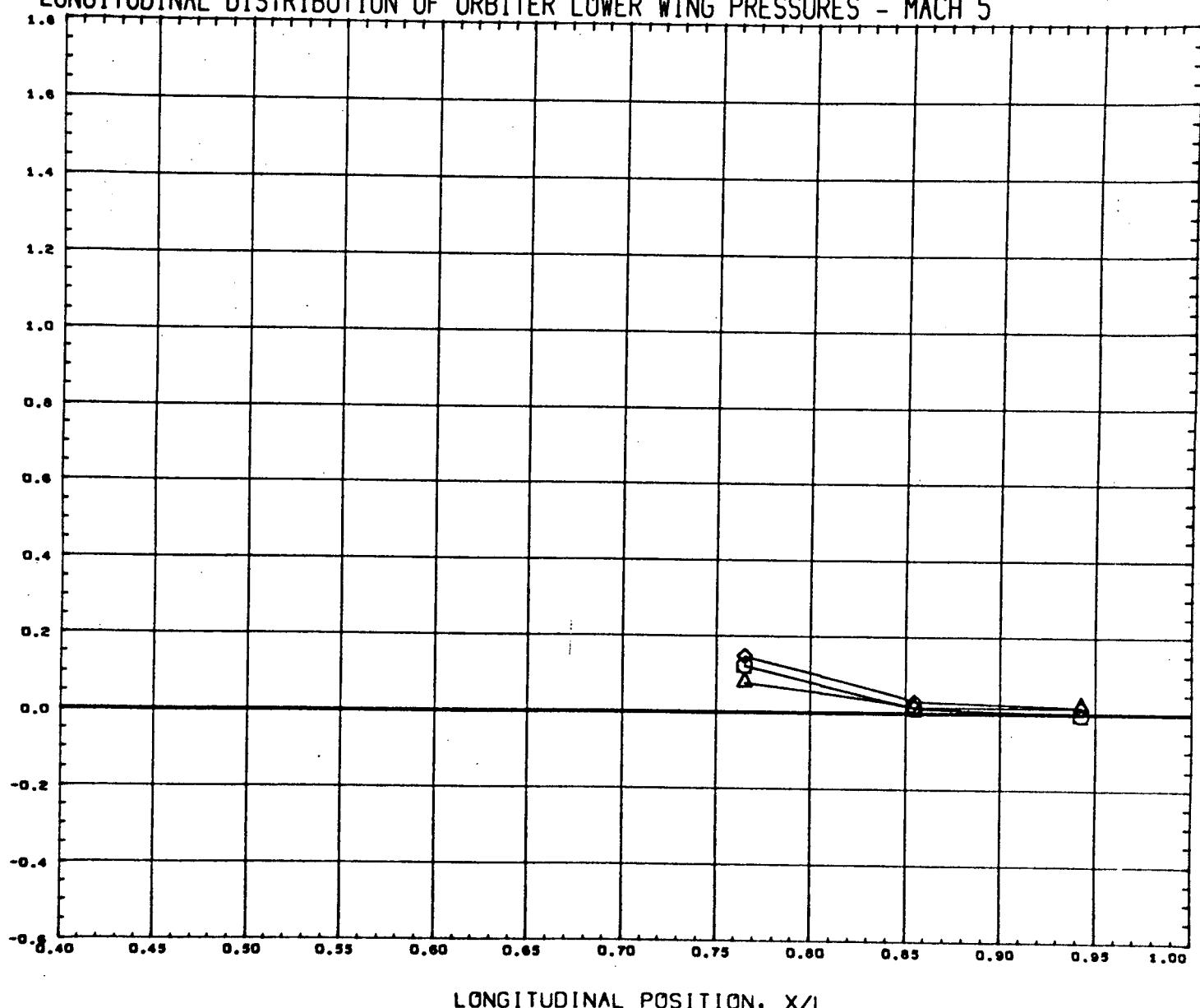
PARAMETRIC VALUES			
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ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

•HT8583•

PAGE 870

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
-	0.144	0.368	0.151
◊	0.103		
◇	0.226		

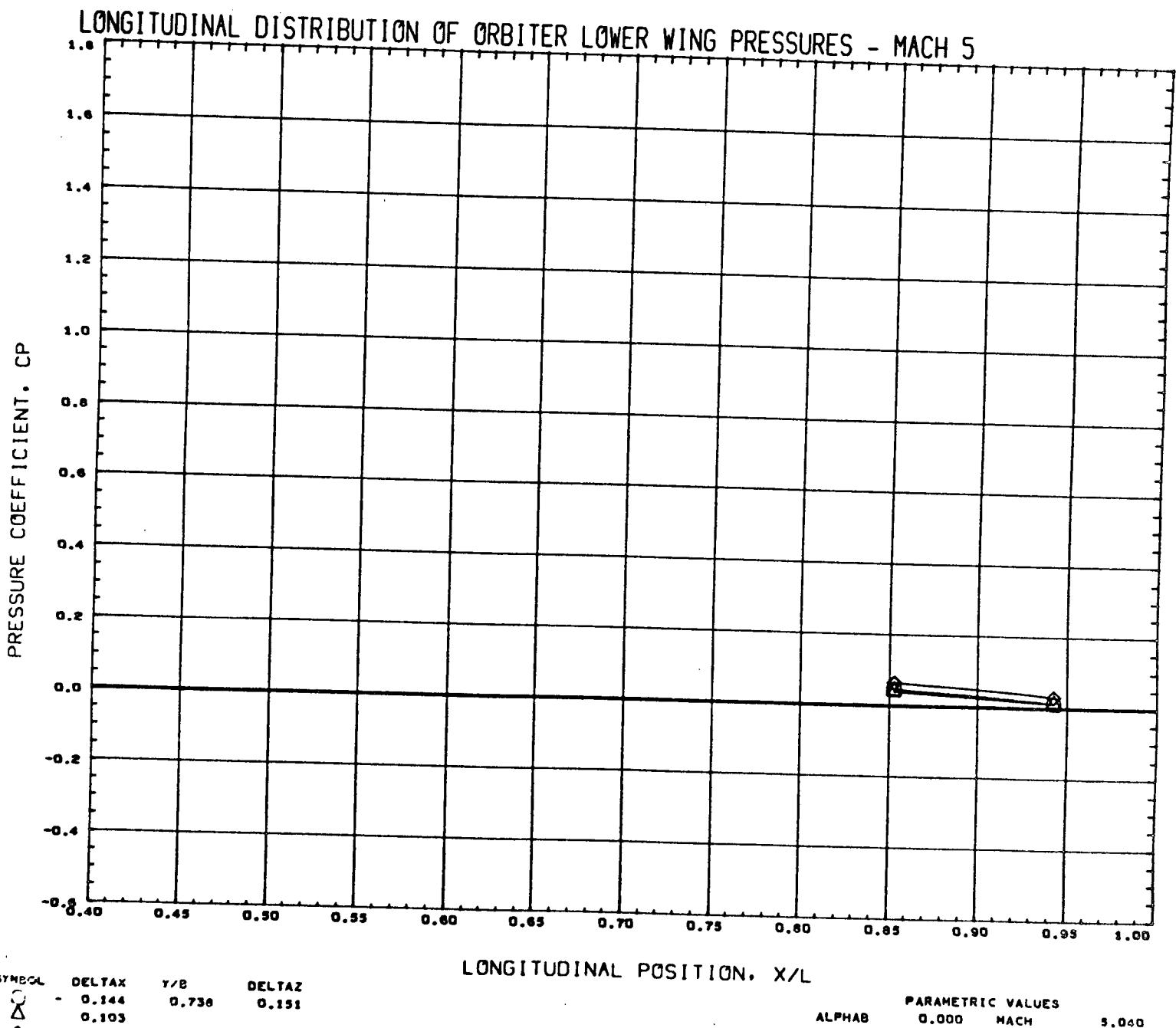
PARAMETRIC VALUES		
ALPHAB	0.000	MACH
ALPHAI	0.000	ORBPOW
BSTPOW	0.000	

REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8583•

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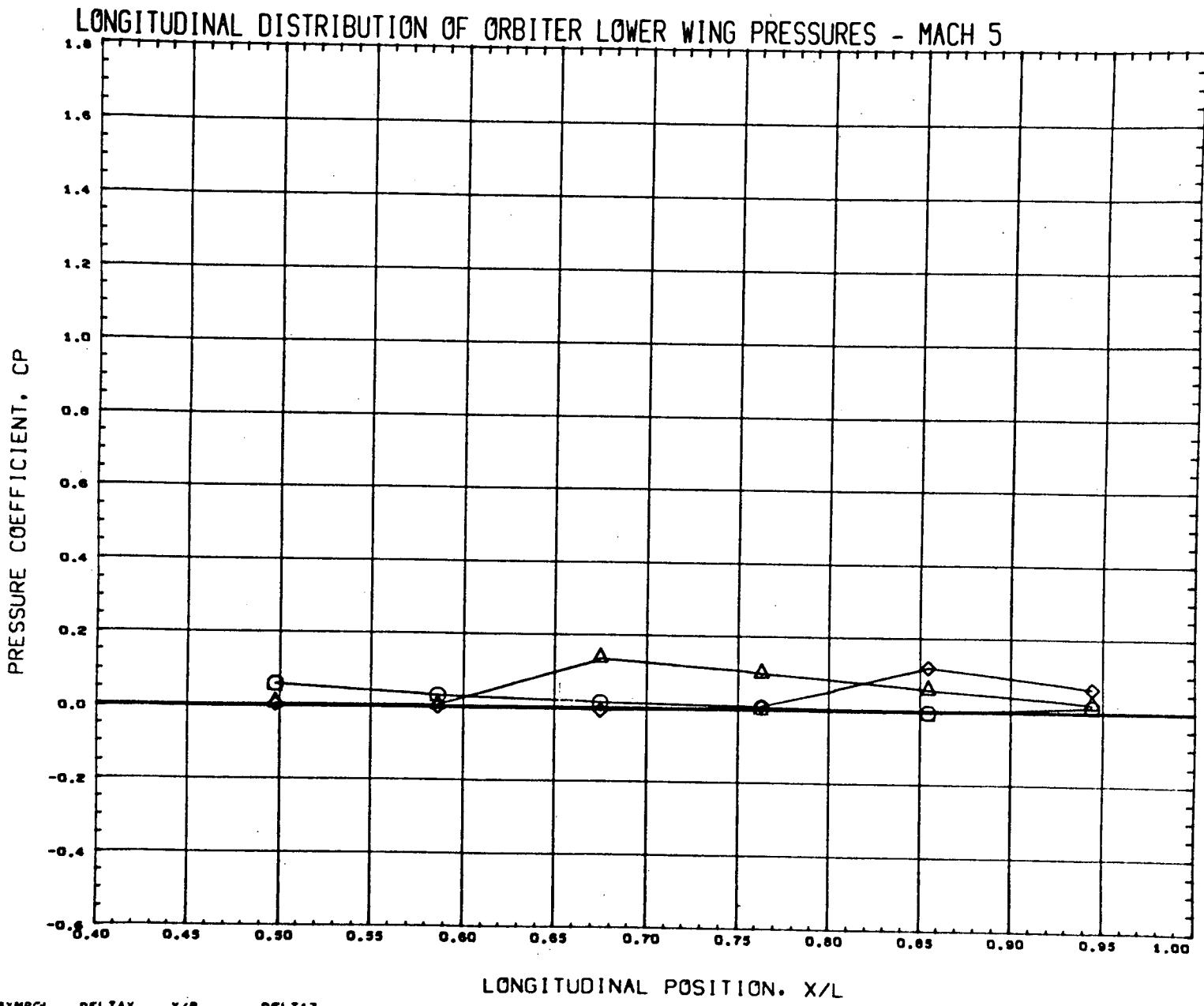


REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8583•

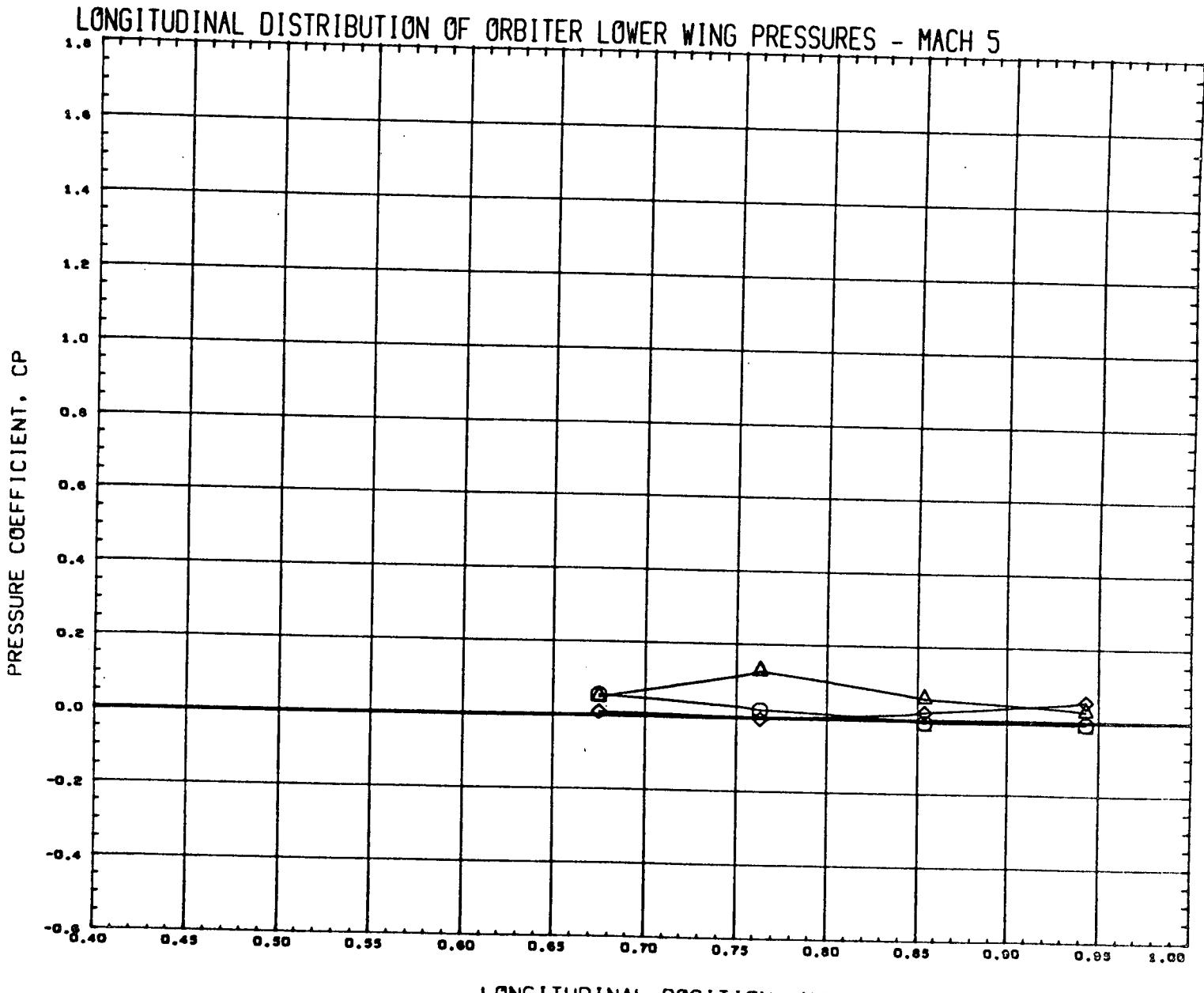
PAGE 872



REFERENCE FILE
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8583•

PAGE 873



SYMBOL DELTAX Y/B DELTAZ

○ - 0.144 0.399 0.226

△ 0.103

◊ 0.226

PARAMETRIC VALUES

	ALPHAB	MACH
ALPHAT	0.000	5.040
BSTPOW	0.000	ORBPOW
	0.000	0.000

REFERENCE FILE

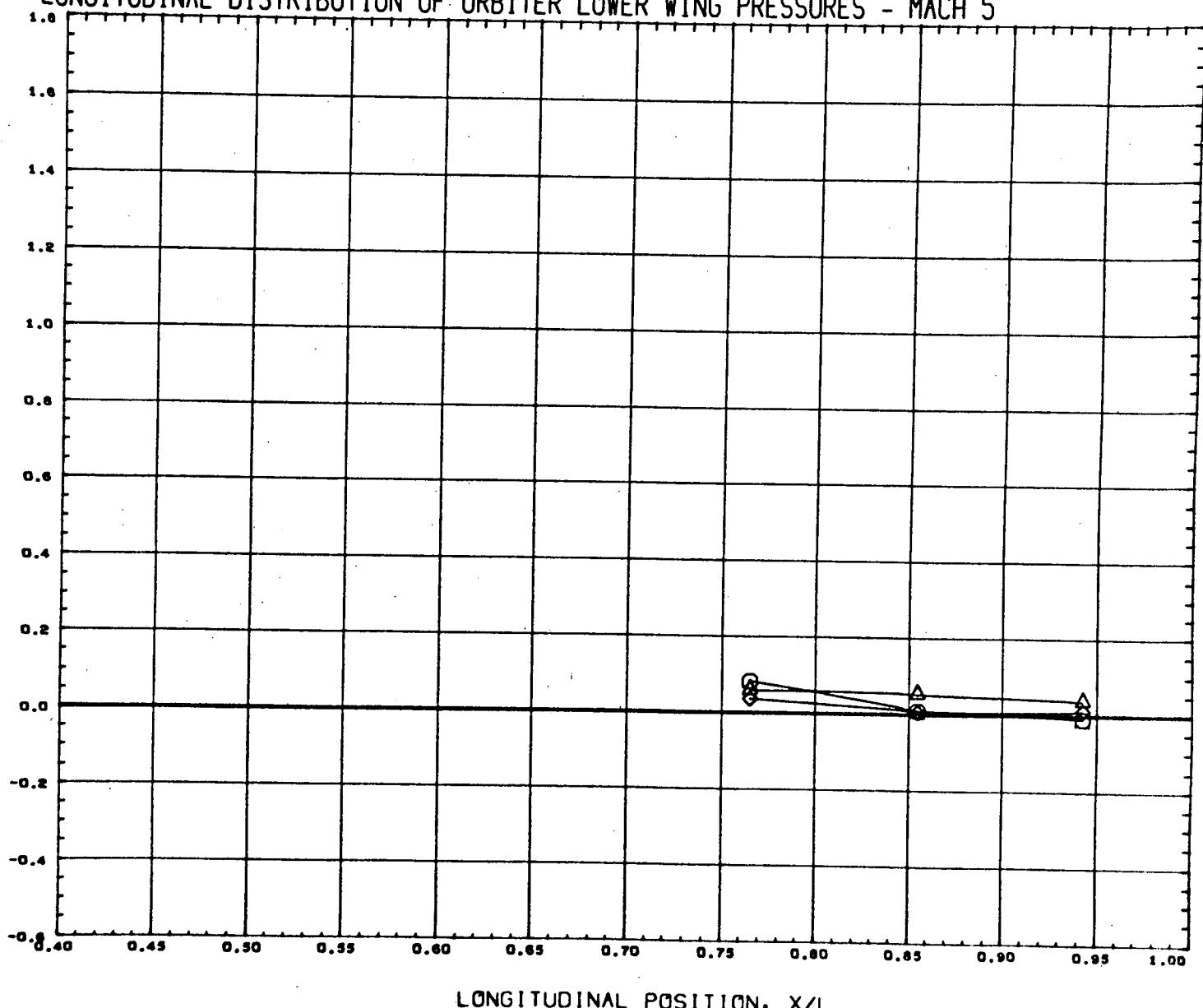
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8583•

PAGE 874

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



SYMBOL	DELTA X	T/B	DELTA Z
○	- 0.144	0.366	0.226
△	0.103		
◊	0.226		

PARAMETRIC VALUES		
ALPHAB	0.000	MACH
ALPHAI	0.000	ORBPOW
BSTPOW	0.000	

REFERENCE FILE

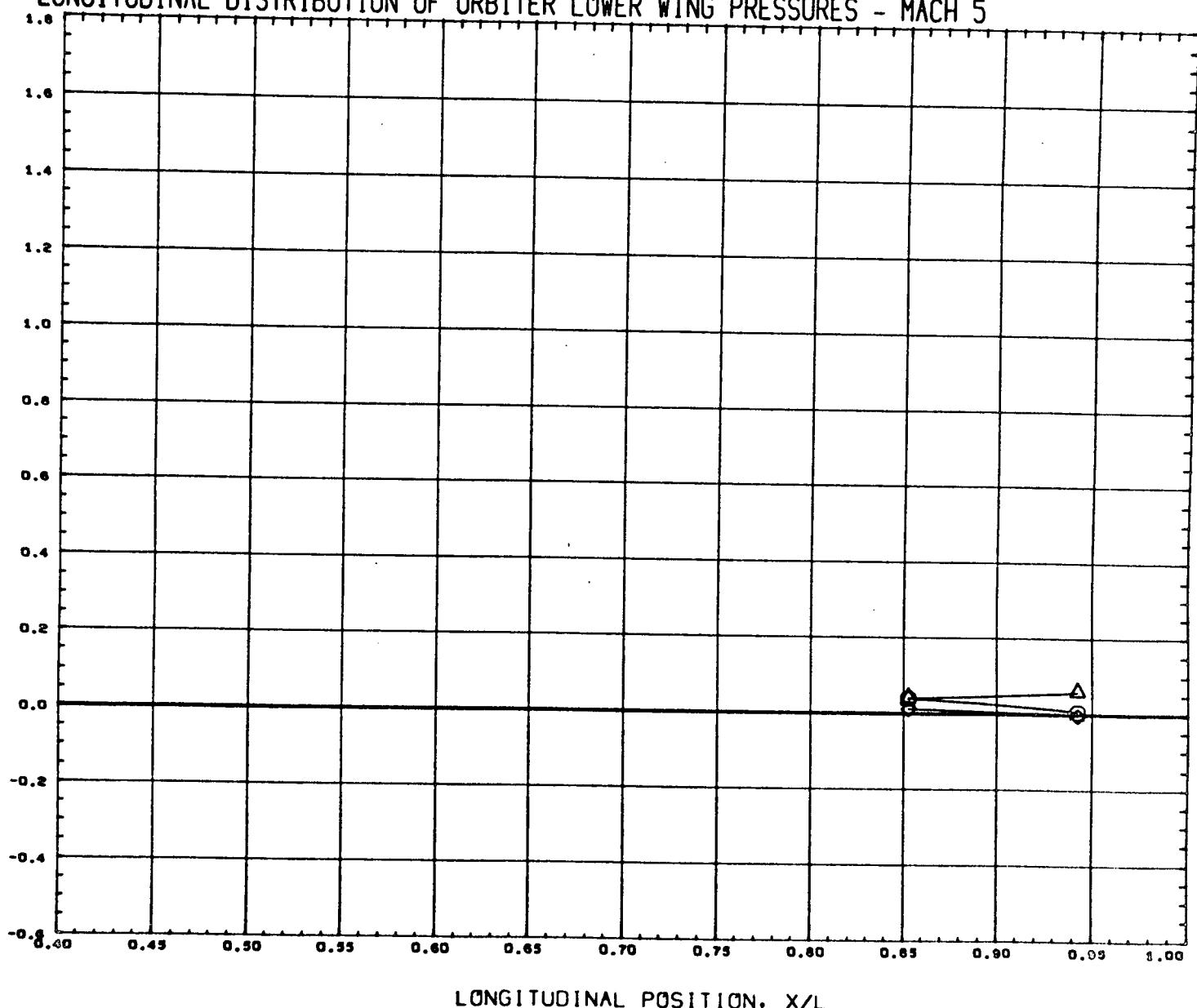
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8583•

PAGE 875

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



LONGITUDINAL POSITION. X/L

SYMBOL	DELTA X	T/B	DELTA Z
-	0.144	0.739	0.226
◊	0.103		
△	0.226		

PARAMETRIC VALUES			
ALPHAB	0.000	MACH	5.040
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

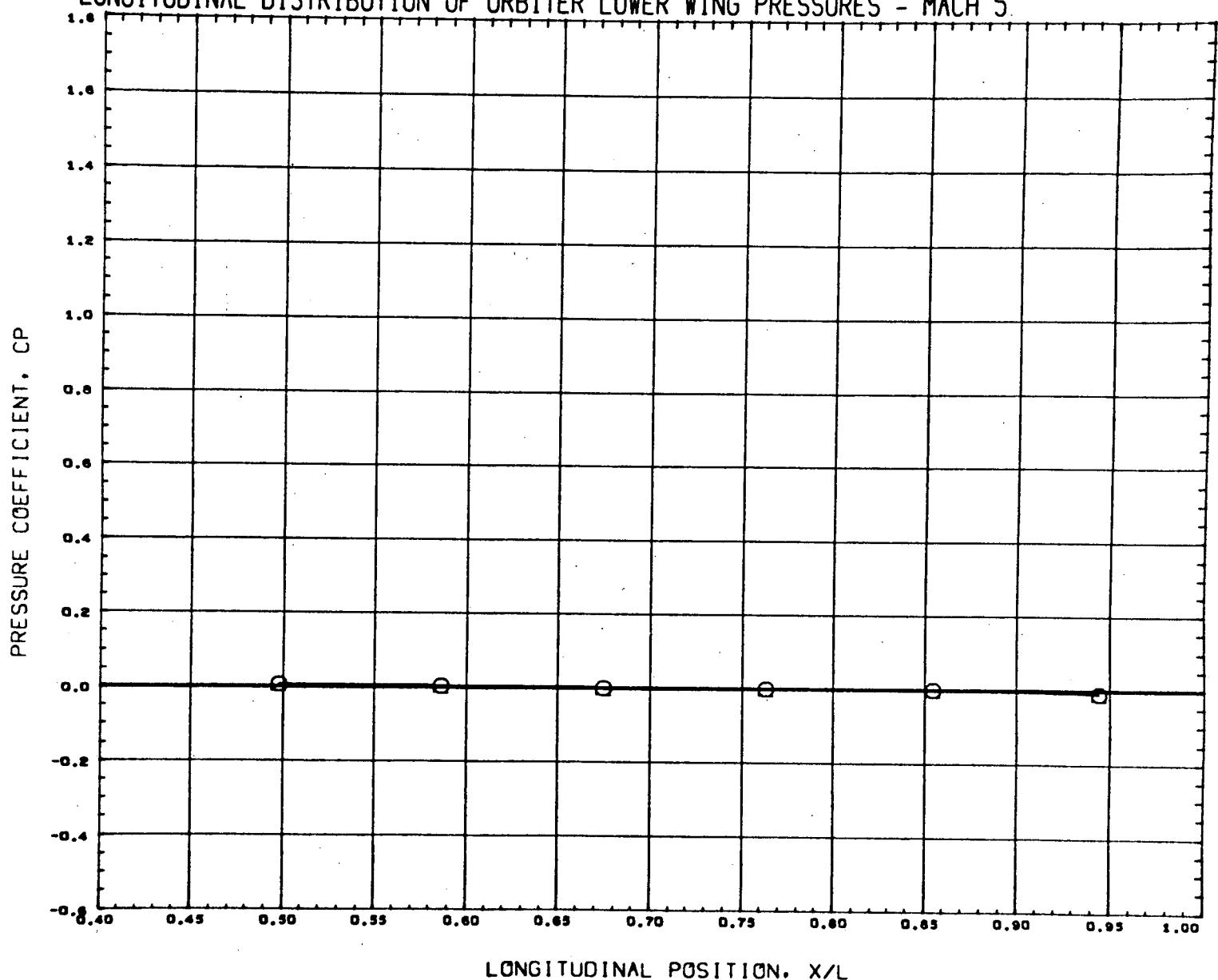
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AEDC VAI163 MDAC ORBITER (LOWER WING)

•HT8583•

PAGE 876

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5.

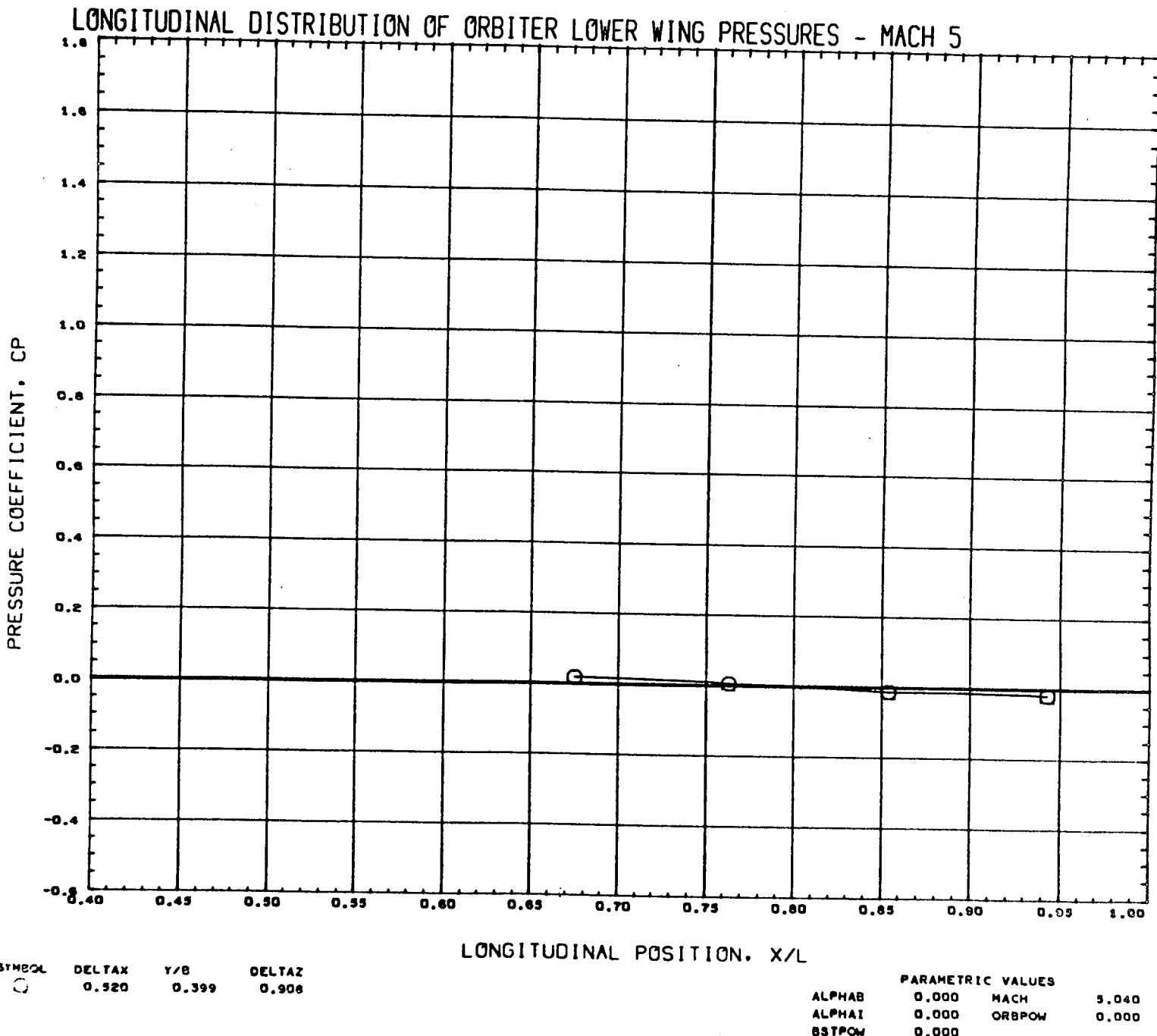


REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8583•

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REFERENCE FILE

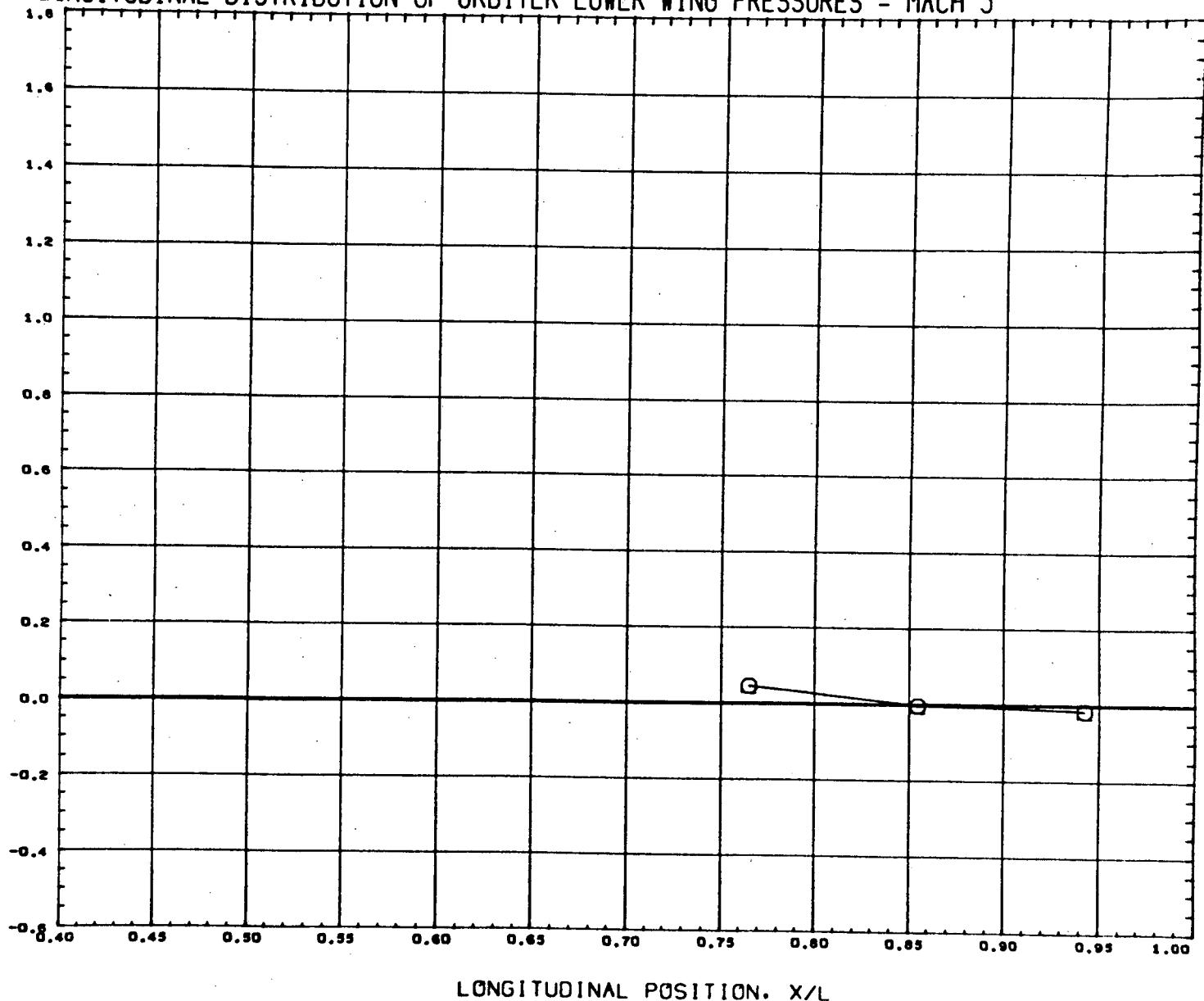
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8583•

PAGE 878

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL DELTAX T/B DELTAZ
C 0.520 0.568 0.908

PARAMETRIC VALUES		
ALPHAB	0.000	MACH 5.040
ALPHAI	0.000	ORBPOW 0.000
BSTPOW	0.000	

REFERENCE FILE

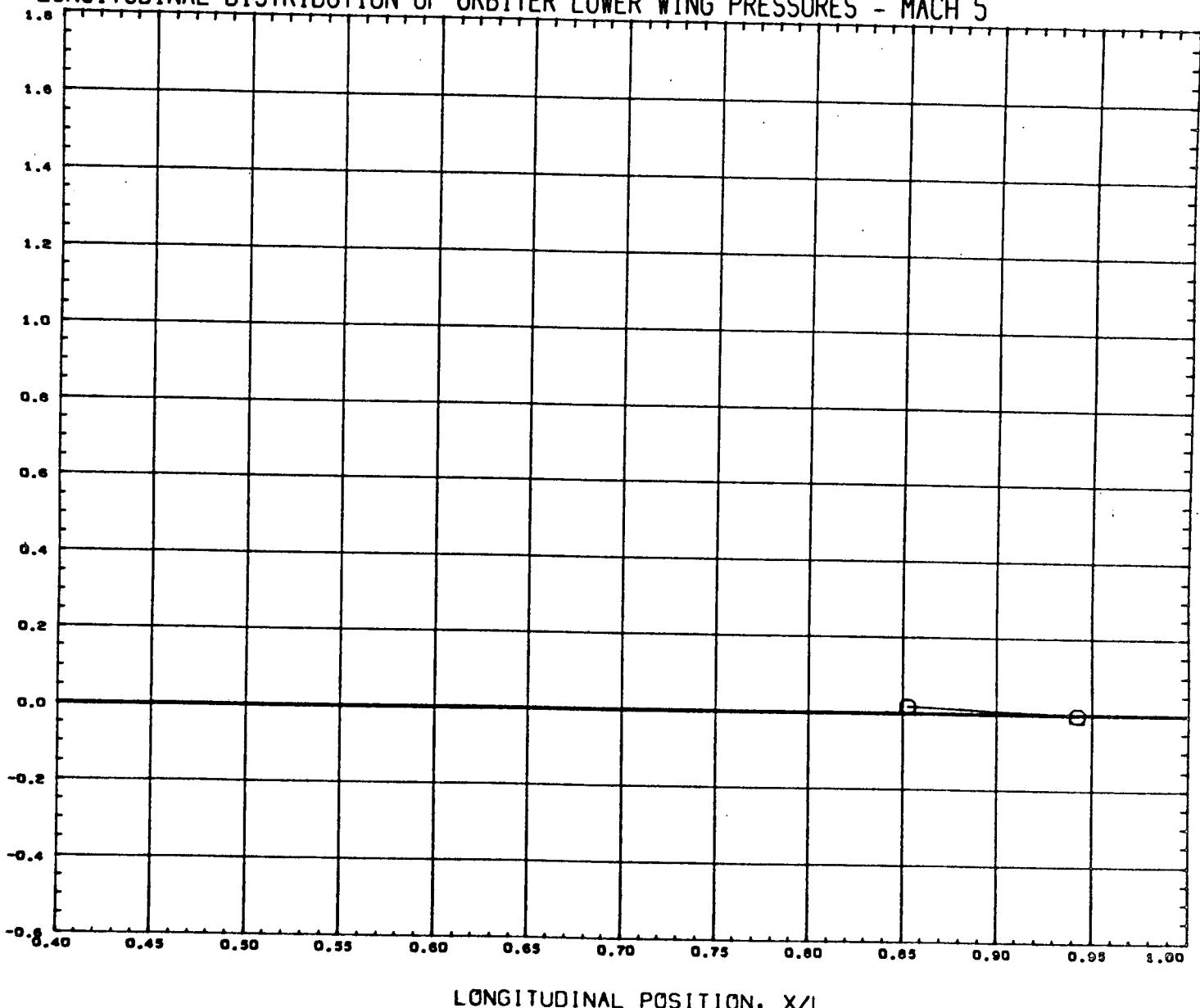
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8583•

PAGE 879

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL DELTAX Y/B DELTAZ
C 0.520 0.739 0.908

LONGITUDINAL POSITION, X/L

PARAMETRIC VALUES			
ALPHAB	0.000	MACH	5.040
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

REFERENCE FILE

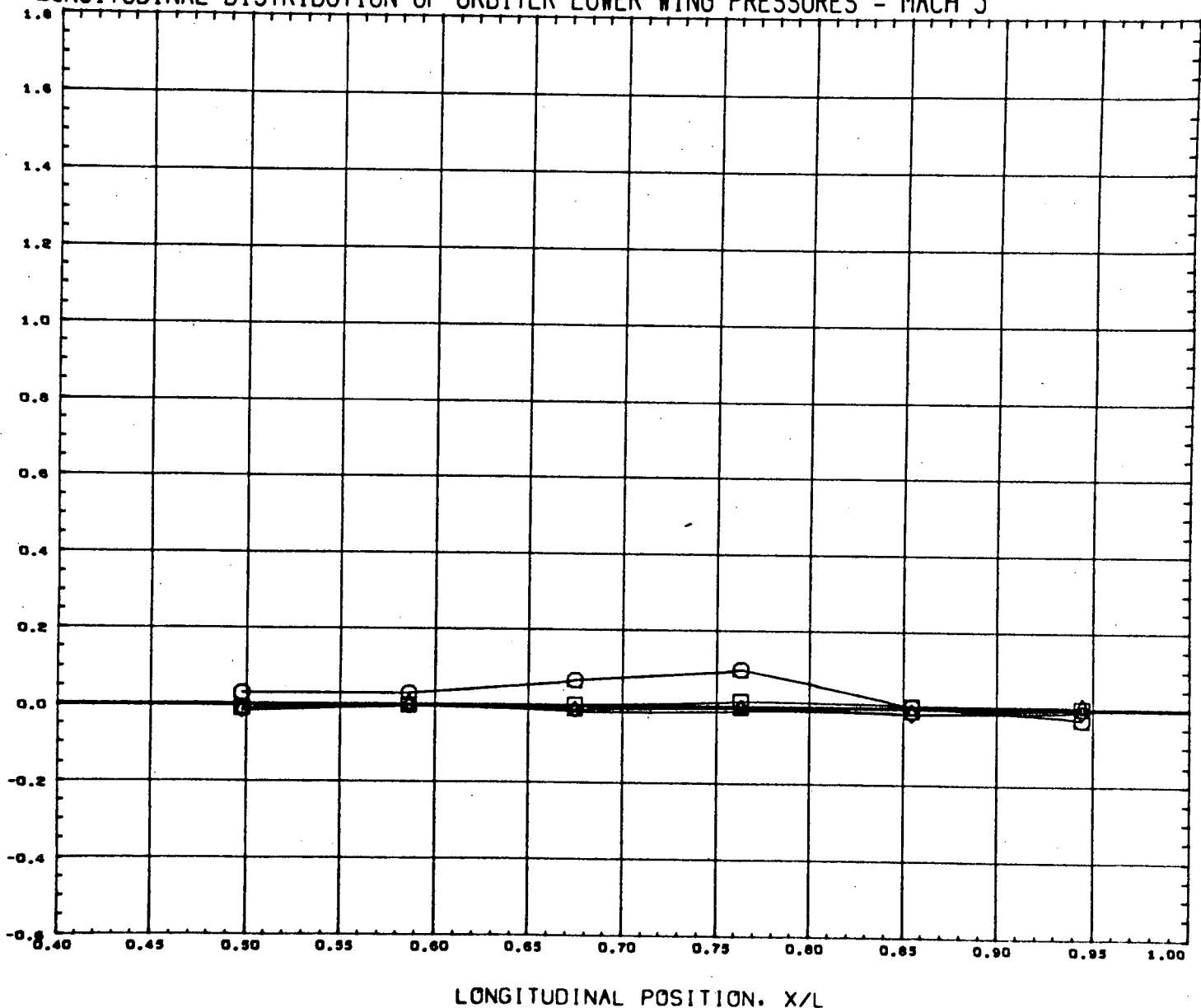
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8583•

PAGE 880

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL	DELTA X	T/B	DELTA Z
-	0.179	0.230	0.106
△	0.041		
◊	0.103		
□	0.164		

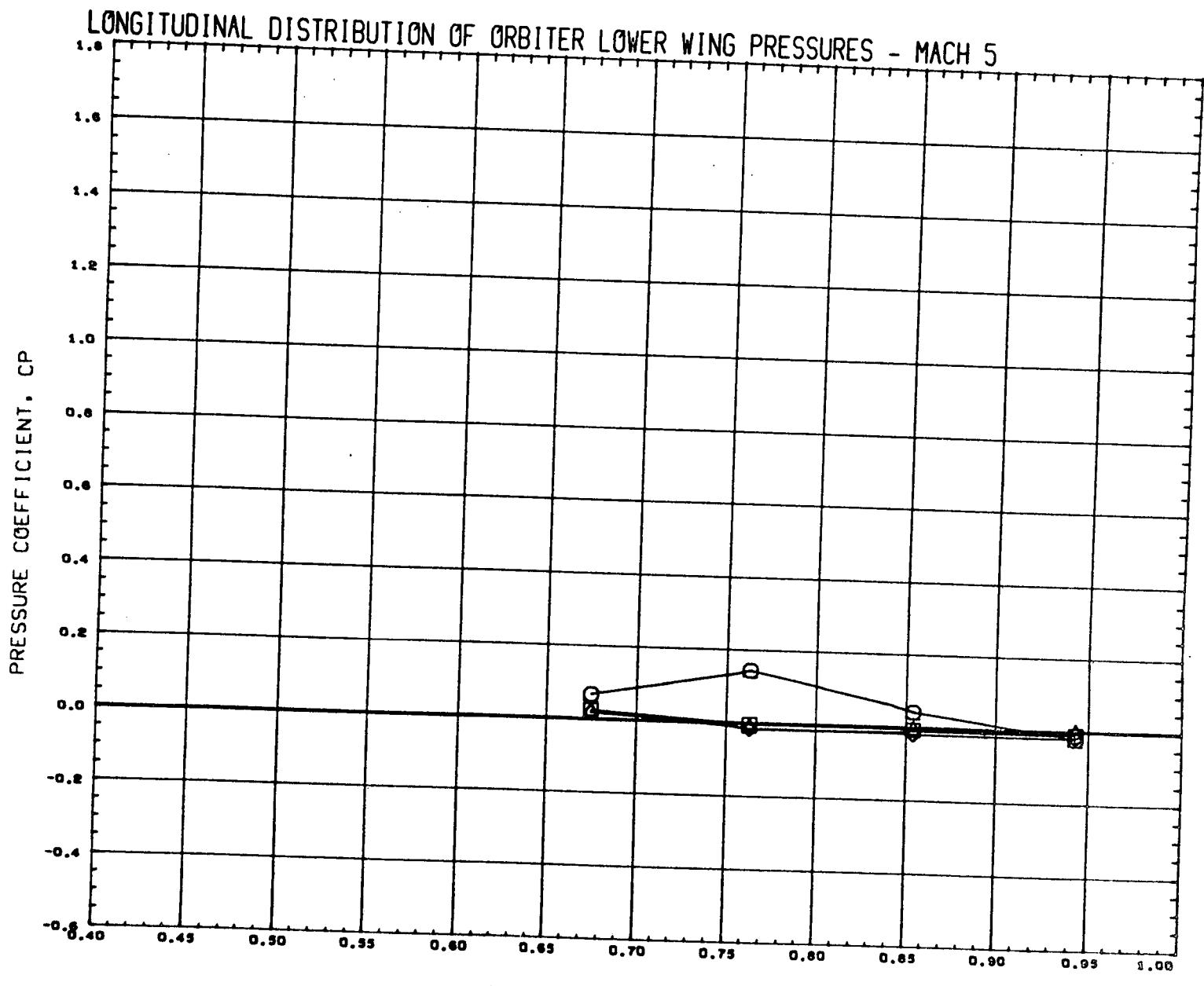
PARAMETRIC VALUES			
ALPHAB	- 9.982	MACH	4.970
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8591•

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PARAMETRIC VALUES			
ALPHAB	-9.982	MACH	4.970
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

REFERENCE FILE

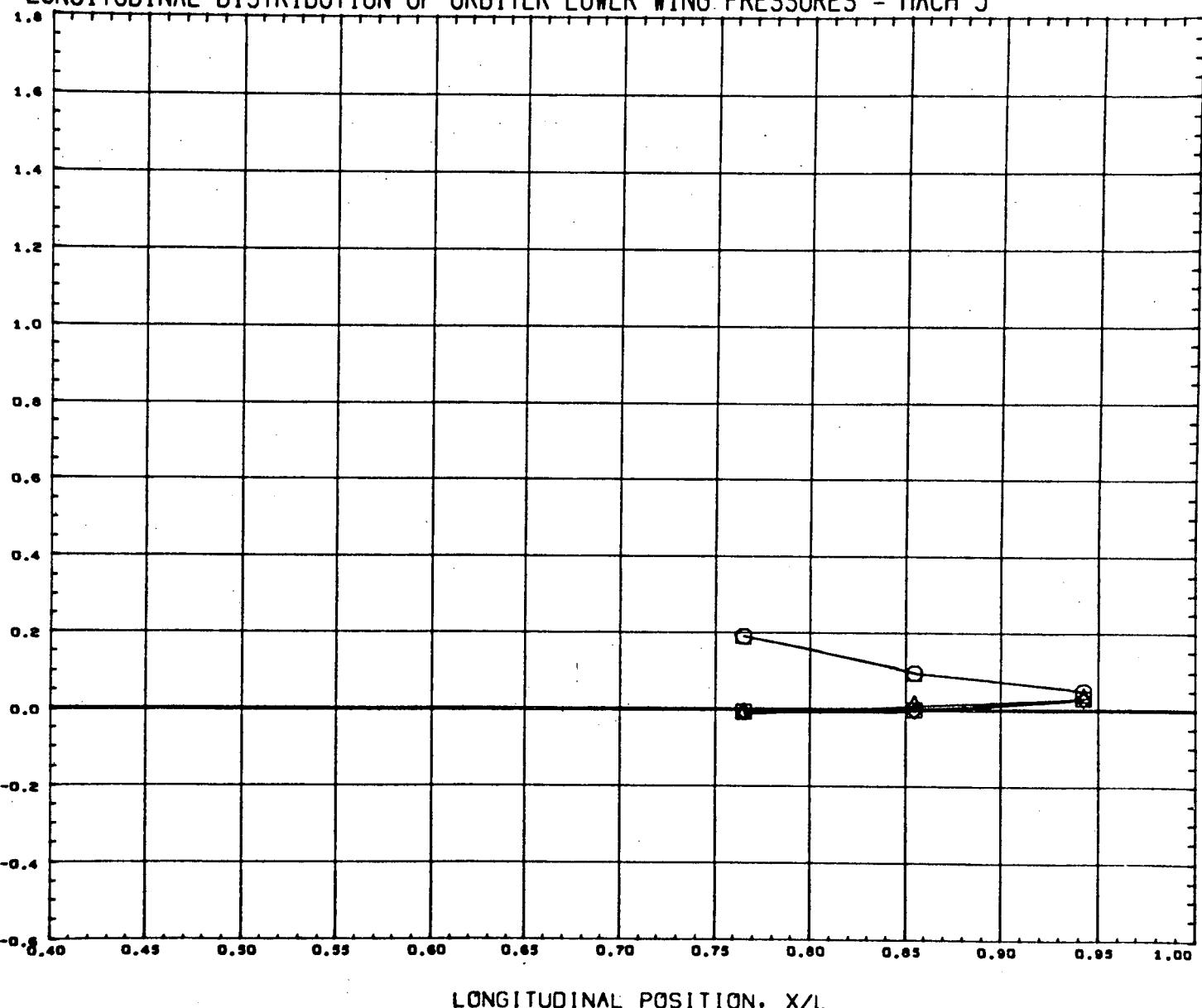
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8591•

PAGE 882

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



SYMBOL DELTAX T/8 DELTAZ

- 0.179 0.566 0.106

△ 0.041

□ 0.103

◊ 0.164

PARAMETRIC VALUES

ALPHAB	- 9.982	MACH	4.970
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

REFERENCE FILE

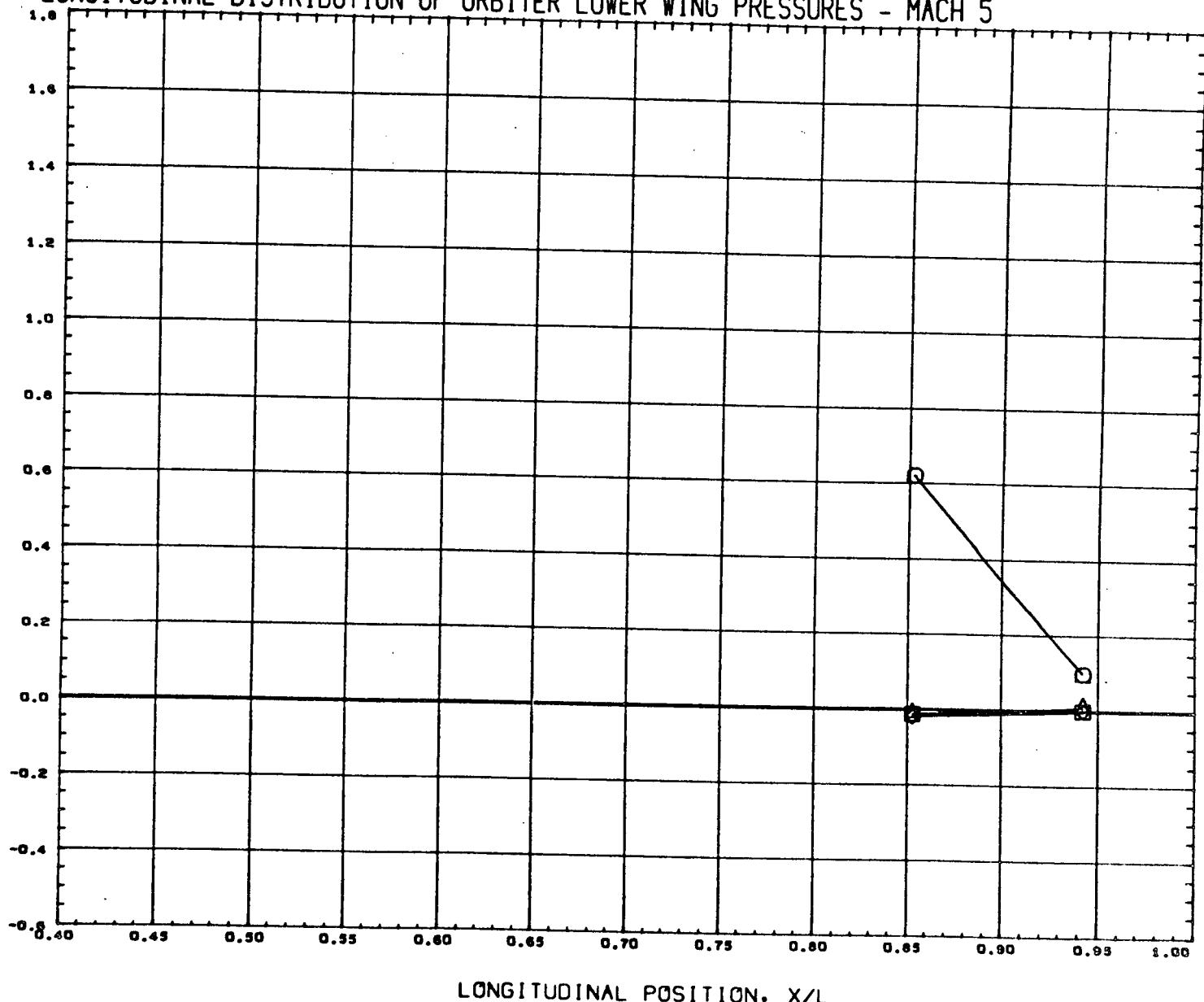
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8591•

PAGE 883

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
-	0.179	0.736	0.106
◊	0.041		
△	0.103		
○	0.164		

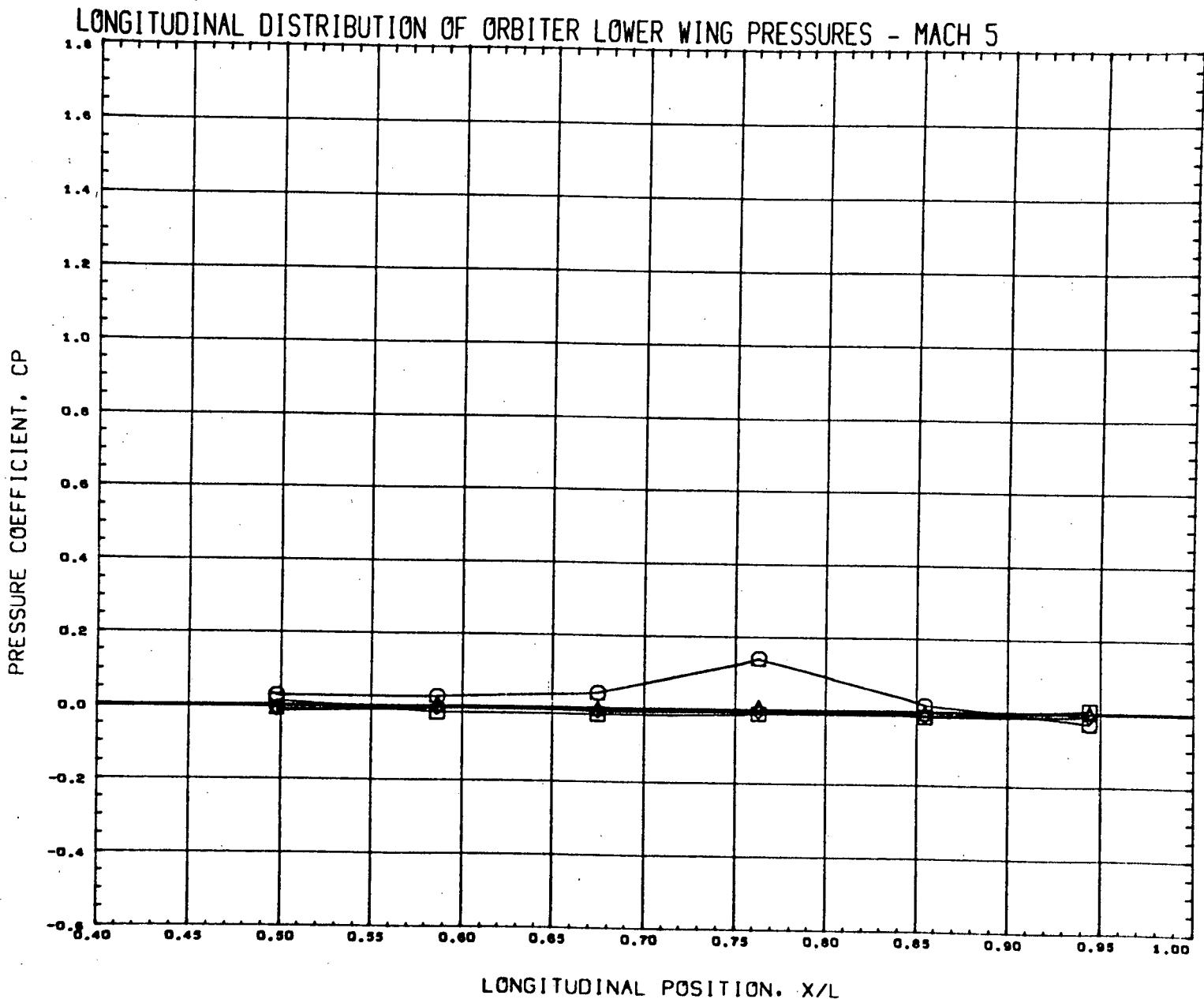
PARAMETRIC VALUES			
ALPHAB	-	9.982	MACH
ALPHAI	0.000	0.000	ORBPOW
BSTPOW	0.000		

REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8591•

PAGE 884



PARAMETRIC VALUES		
ALPHAB	- 4.957	MACH 4.970
ALPHAI	0.000	ORBPOW 0.000
BSTPOW	0.000	

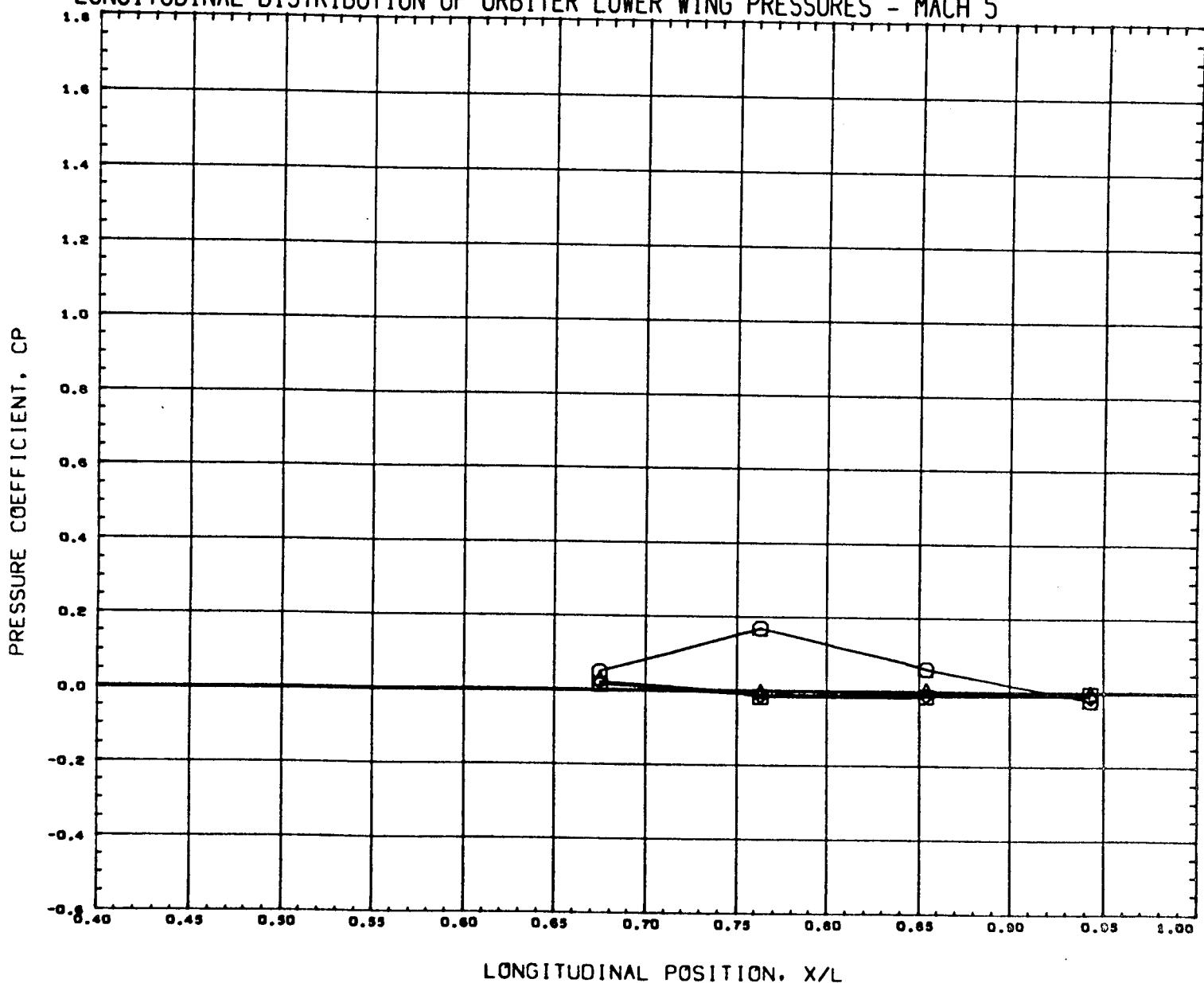
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8592•

PAGE 885

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL DELTAX Y/E DELTAZ
C - 0.179 0.399 0.106
△ 0.041
□ 0.103
◊ 0.164

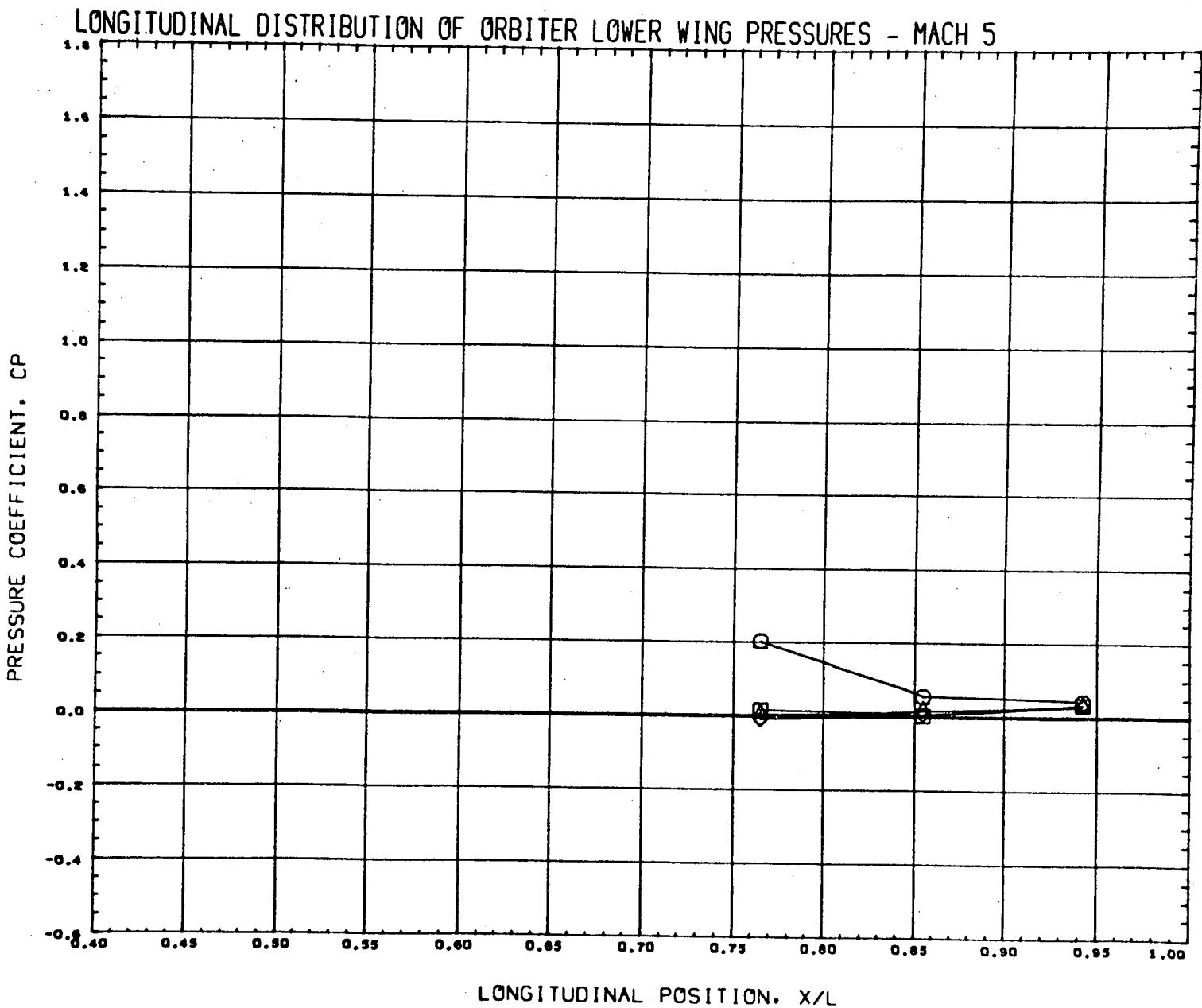
PARAMETRIC VALUES
ALPHAB - 4.957 MACH 4.970
ALPHAI 0.000 ORBPOW 0.000
BSTPOW 0.000

REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8592•

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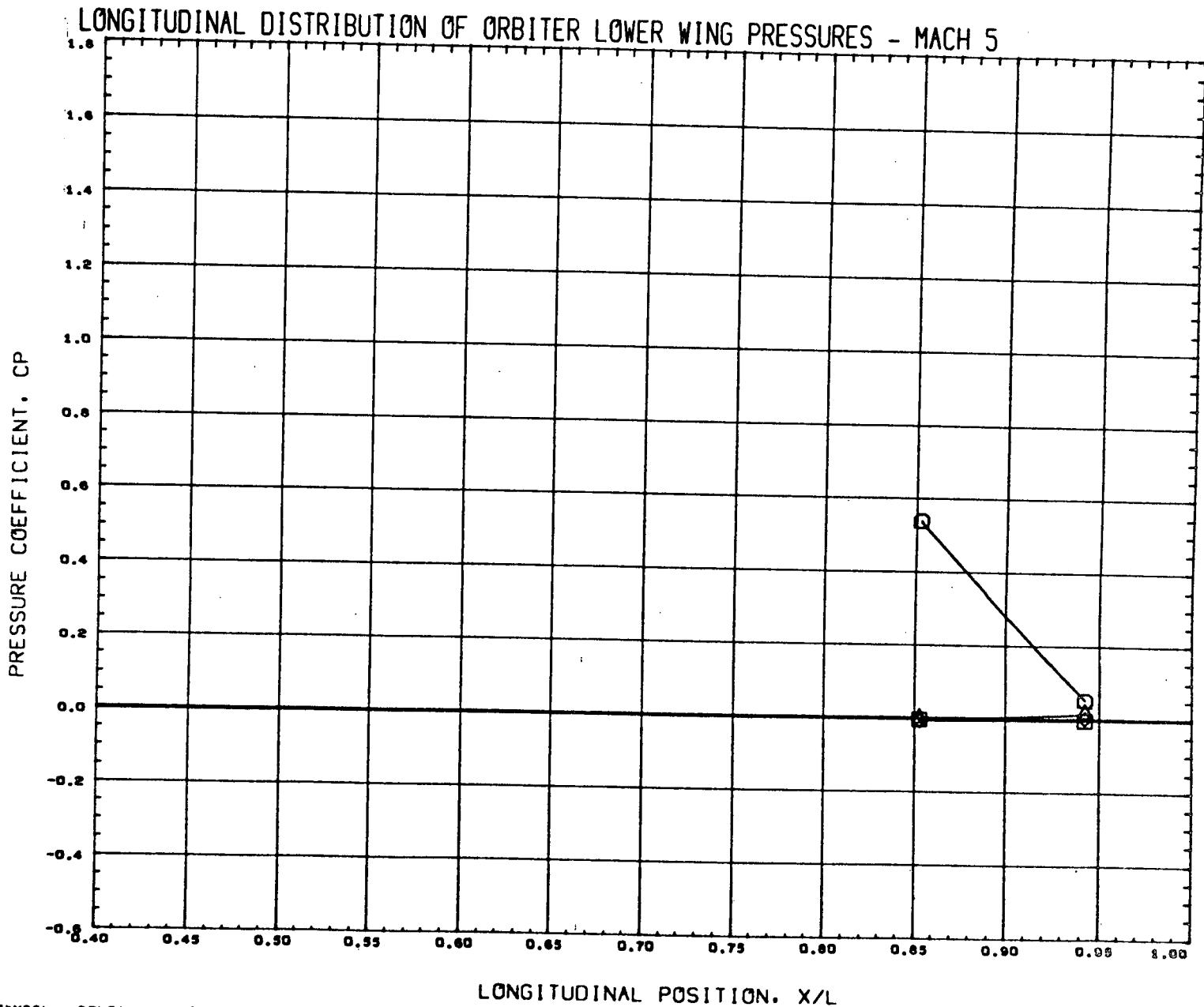


REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8592•

PAGE 887



SYMBOL DELTAX Y/8 DELTAZ
 Δ - 0.179 0.736 0.106
 \diamond 0.041
 \square 0.103
 \square 0.164

PARAMETRIC VALUES
ALPHAB = 4.937 MACH = 4.970
ALPHAI = 0.000 ORBPOW = 0.000
BBTPOW = 0.000

REFERENCE FILE

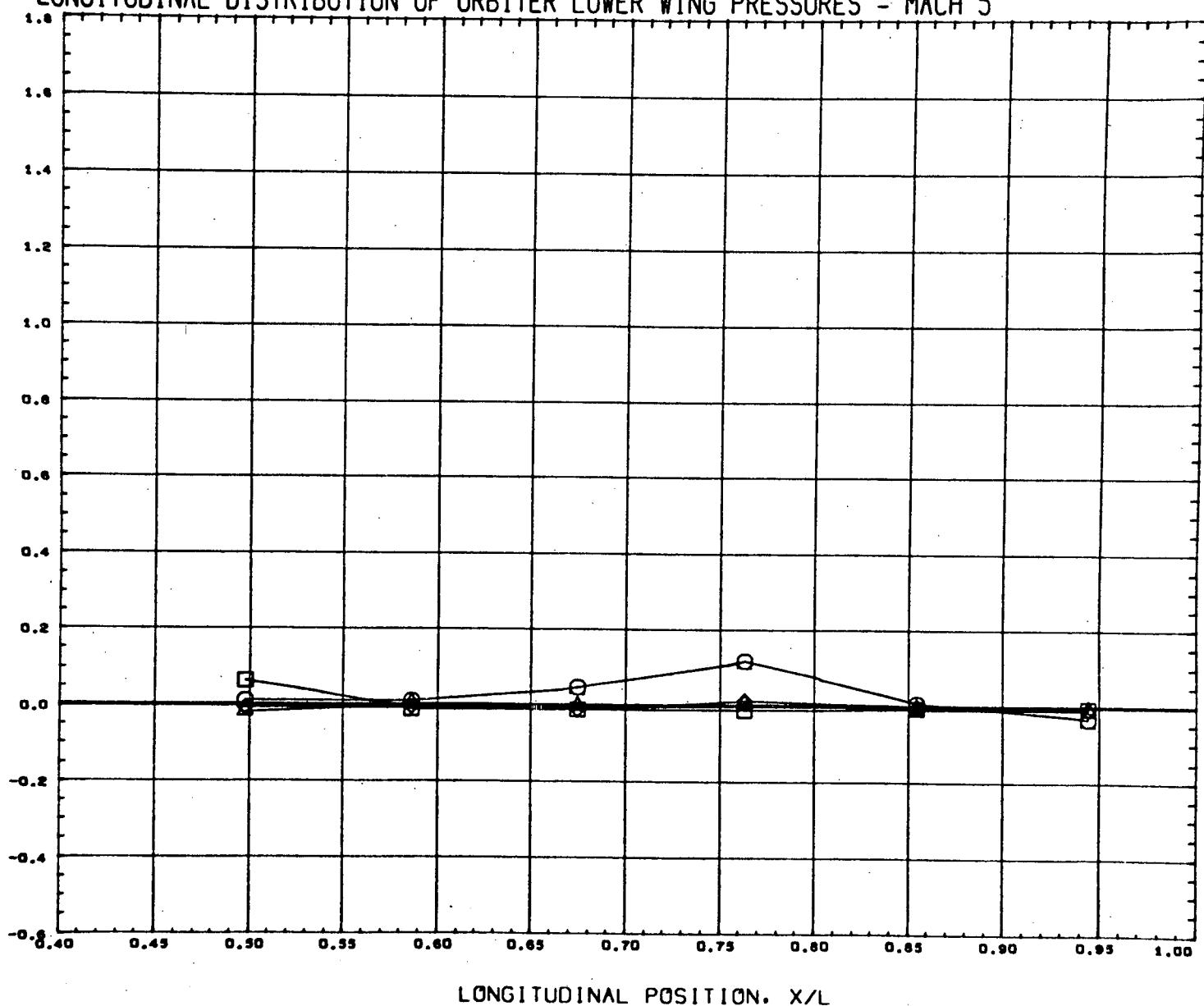
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8592•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL DELTAX Y/B DELTAZ

- \square - 0.179 0.230 0.106
- Δ 0.041
- \diamond 0.103
- \triangle 0.164

PARAMETRIC VALUES

	ALPHAB	MACH
ALPHAI	0.000	4.970
BSTPON	0.000	0.000

REFERENCE FILE

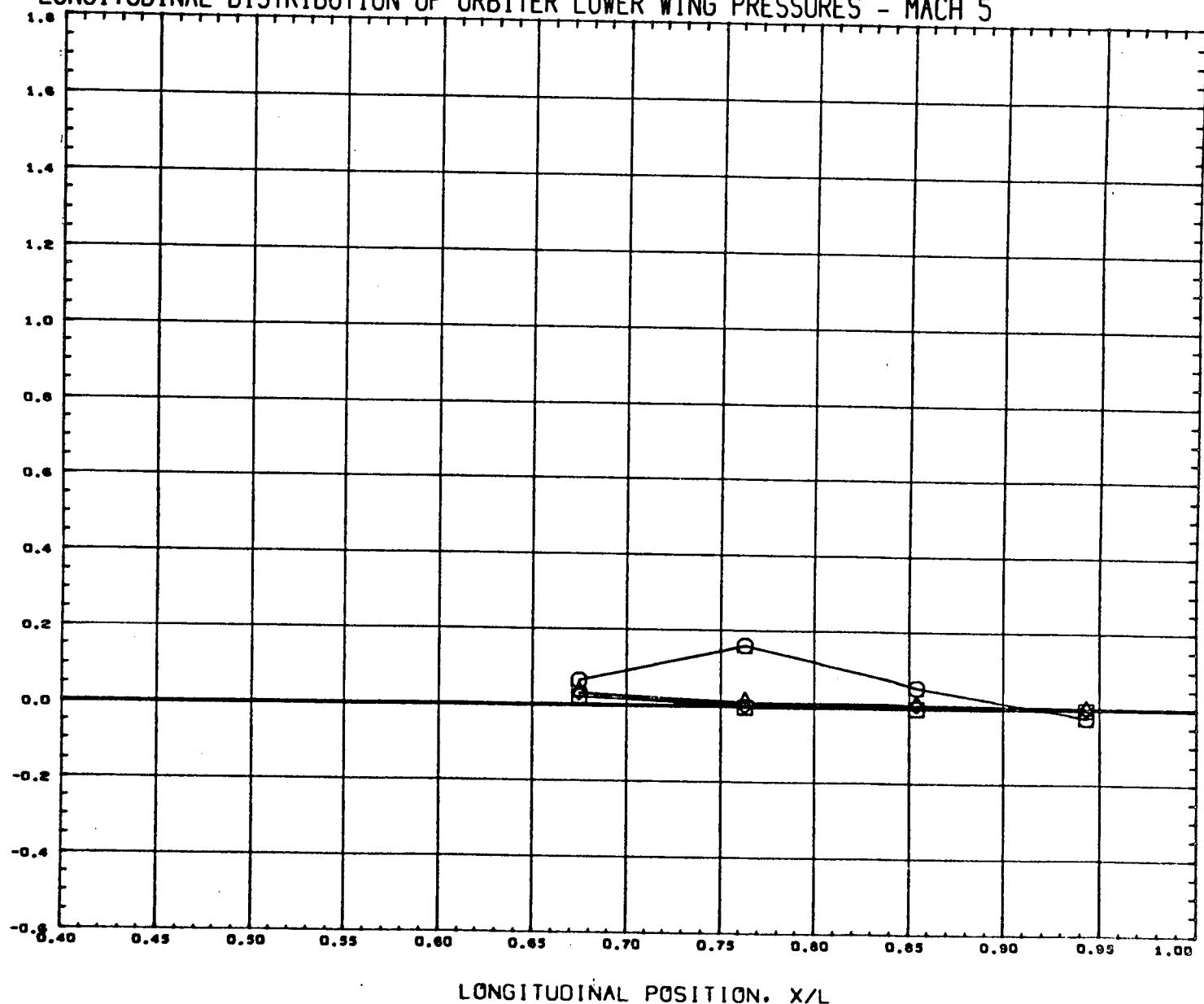
AEDC VAI163 MDAC ORBITER (LOWER WING)

•HT8593•

PAGE 889

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION. X/L

SYMBOL	DELTAX	Y/B	DELTAZ
-	0.179	0.399	0.106
△	0.041		
◊	0.103		
□	0.164		

PARAMETRIC VALUES		
ALPHAB	0.000	MACH
ALPHAI	0.000	ORBPOW
BSTPOW	0.000	

REFERENCE FILE

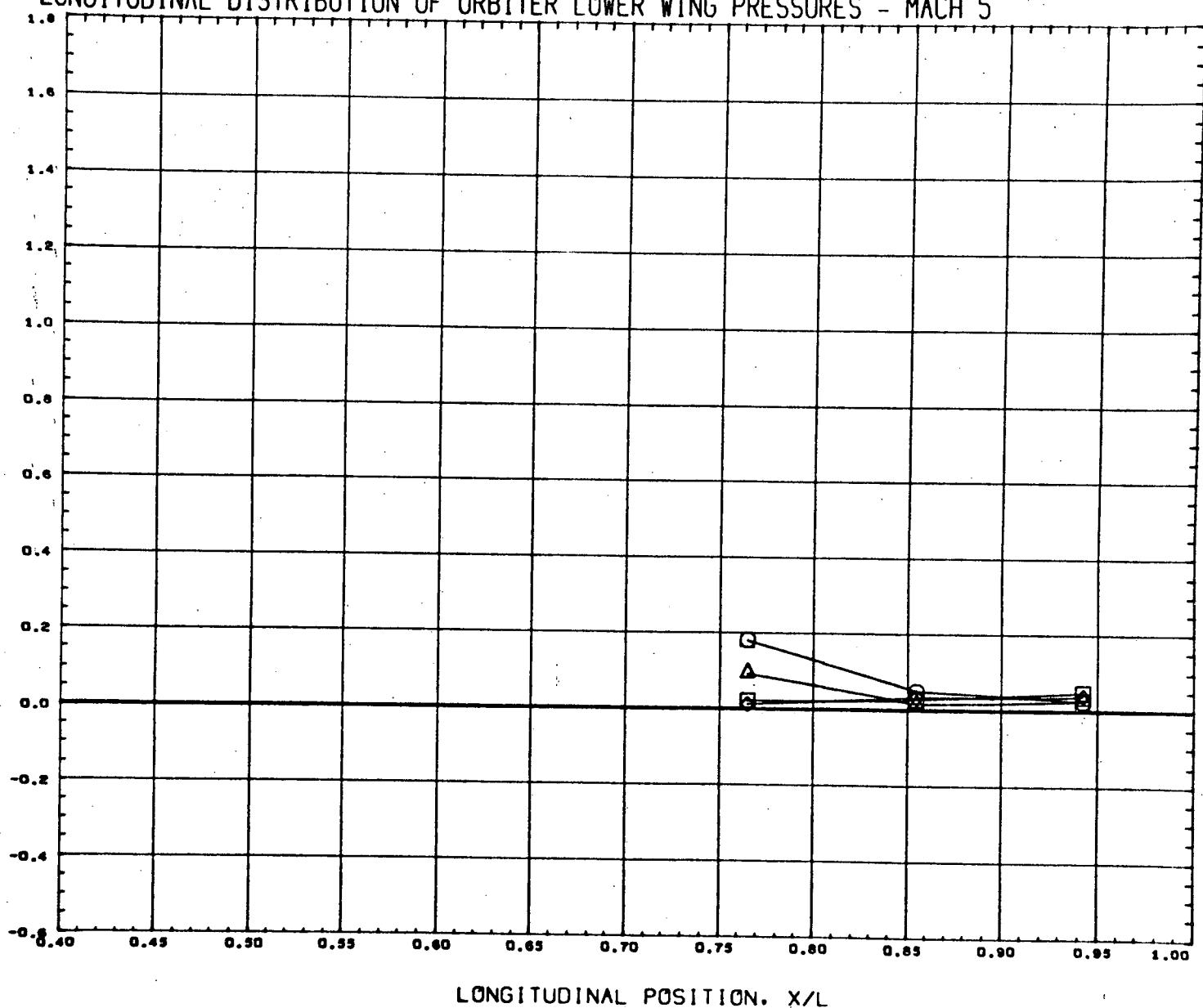
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8593•

PAGE 890

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL DELTAX Y/B DELTAZ
 ○ - 0.179 0.368 0.106
 △ 0.041
 ◇ 0.103
 □ 0.164

PARAMETRIC VALUES
 ALPHAB 0.000 MACH 4.970
 ALPHAI 0.000 ORBPOW 0.000
 BSTPOW 0.000

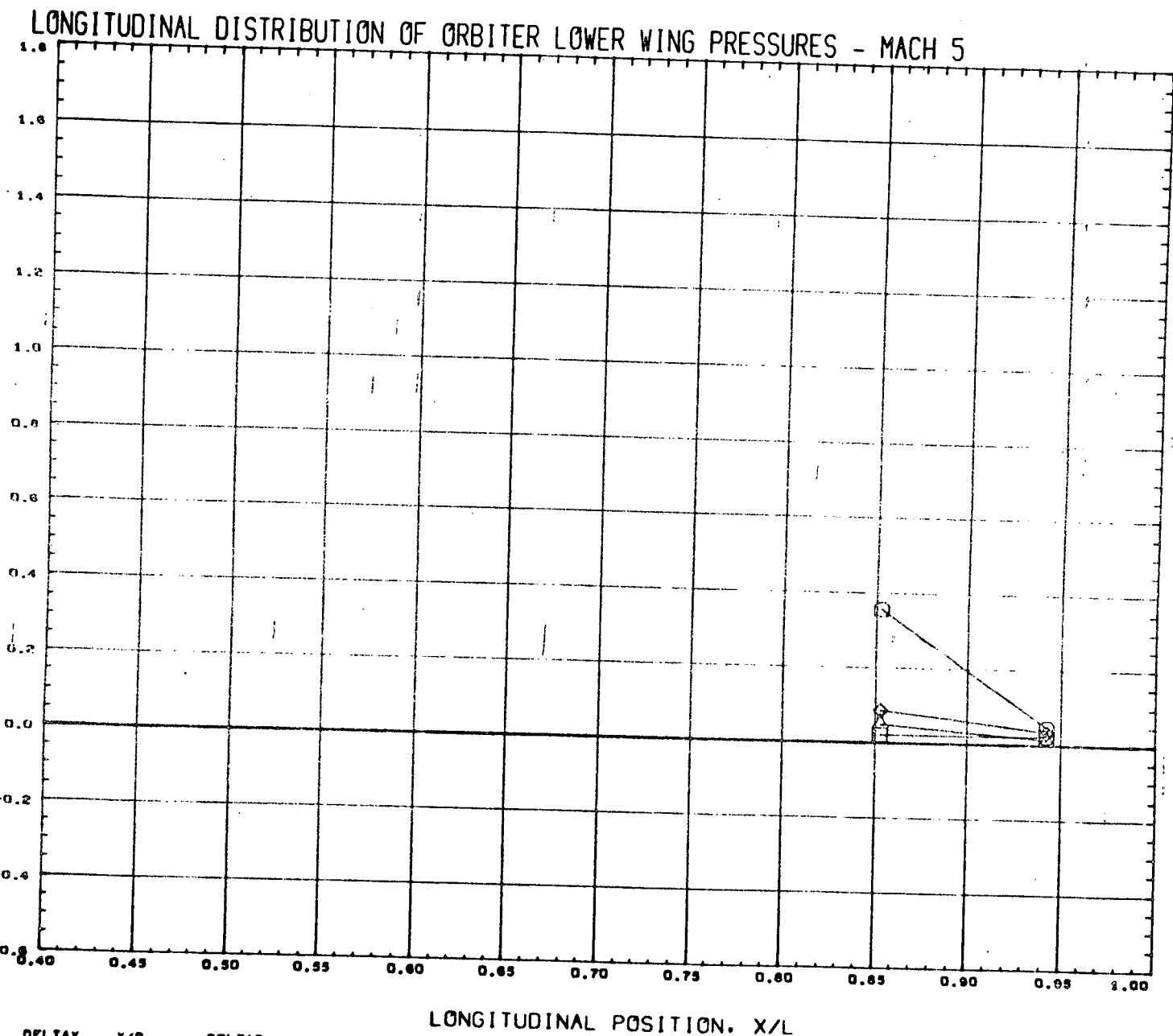
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8593•

PAGE 891

PRESSURE COEFFICIENT, CP



SYMBOL	DELTA X	Y/B	DELTA Z
○	- 0.179	0.738	0.106
△	0.041		
◊	0.103		
□	0.164		

PARAMETRIC VALUES		
ALPHAB	0.000	MACH
ALPHAT	0.000	ORBPOW
BSTPOW	0.000	

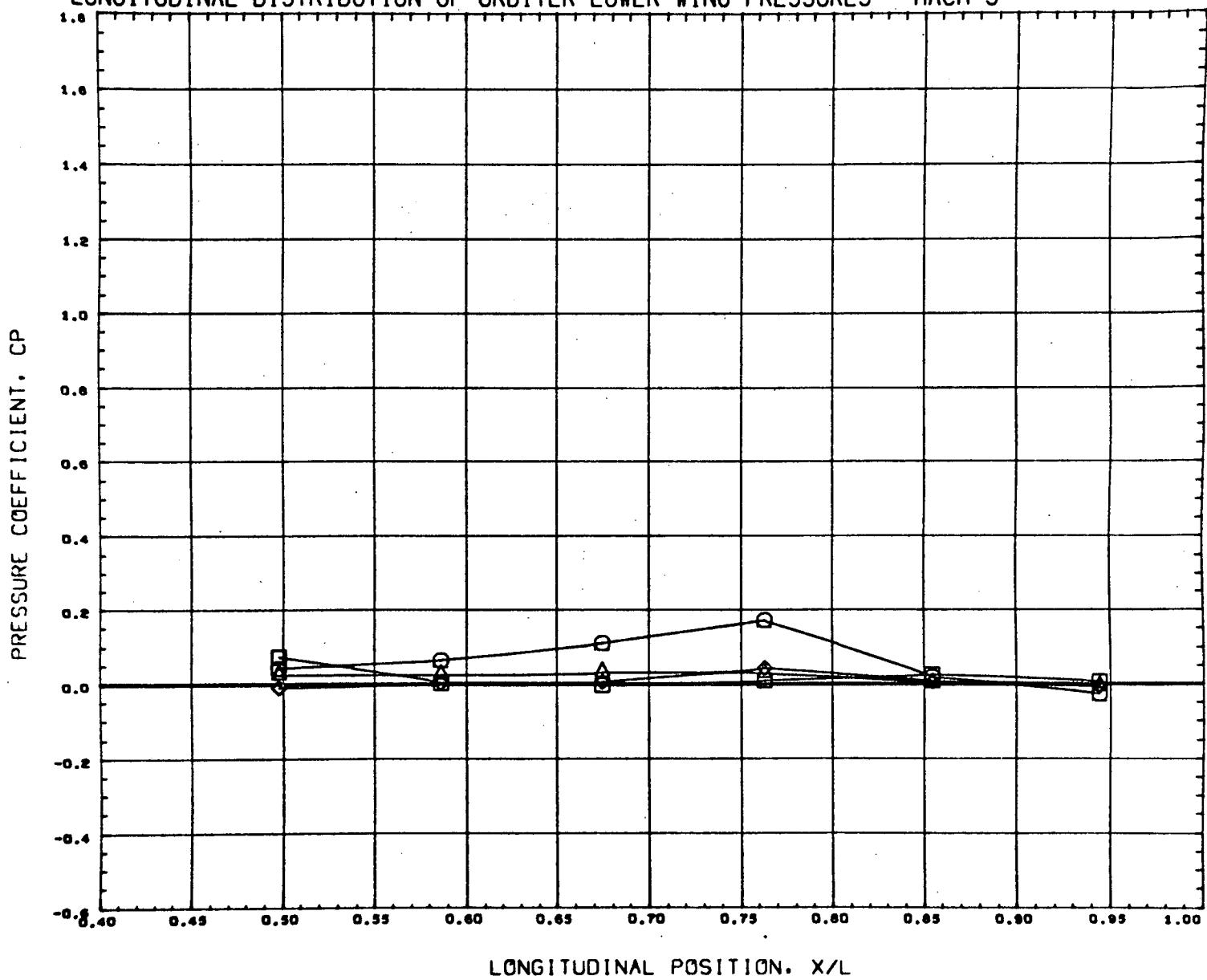
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8593•

PAGE 892

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION. X/L

SYMBOL	DELTA X	Y/B	DELTA Z
-	0.179	0.230	0.106
○	0.041		
◊	0.103		
□	0.164		

PARAMETRIC VALUES			
ALPHAB	5.035	MACH	4.970
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

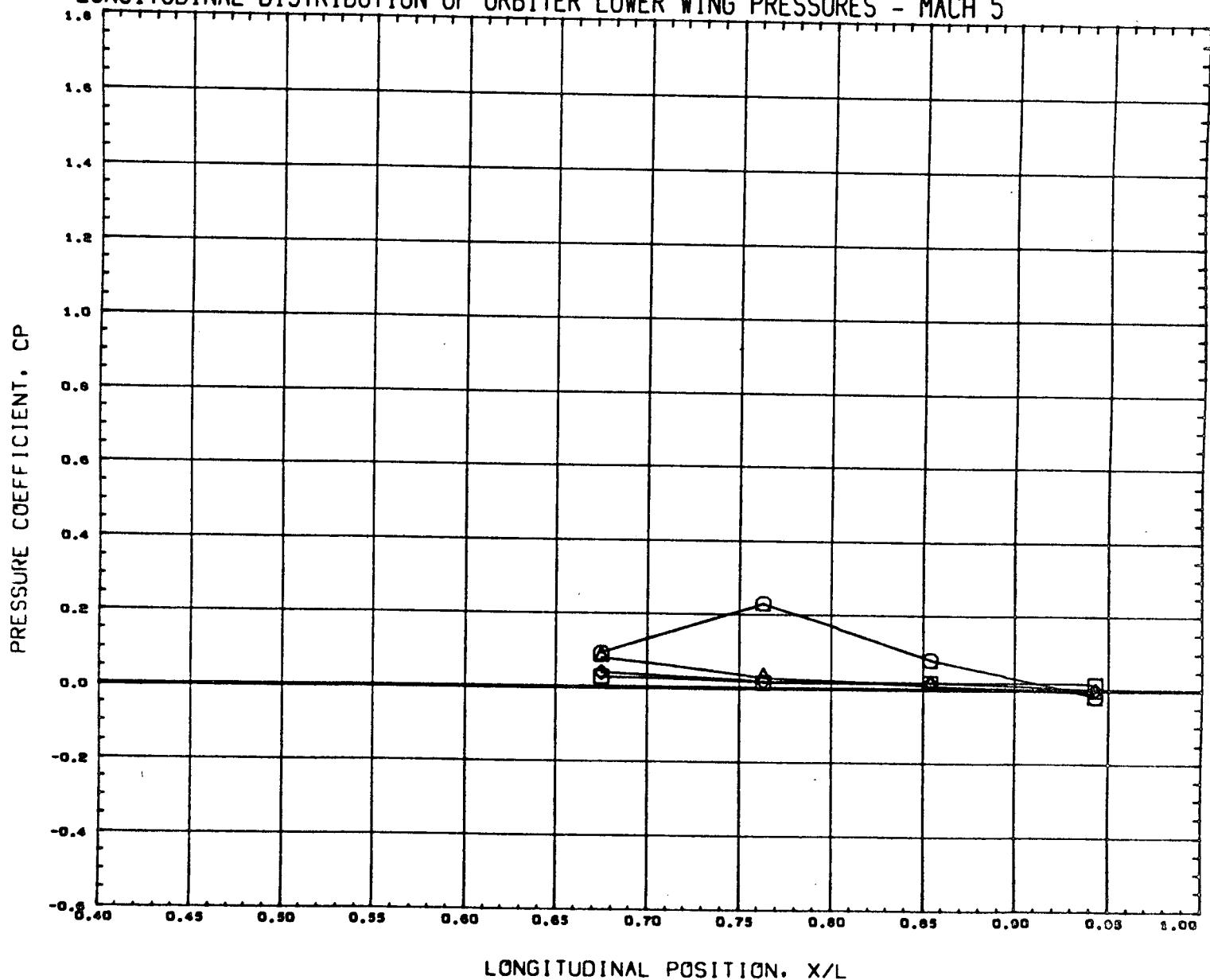
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8594•

PAGE 893

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL DELTAX Y/B DELTAZ
 - 0.179 0.399 0.106
 △ 0.041
 ◇ 0.103
 □ 0.164

PARAMETRIC VALUES
 ALPHAB 5.035 MACH 4.970
 ALPHAT 0.000 ORBPOW 0.000
 BSTPOW 0.000

REFERENCE FILE

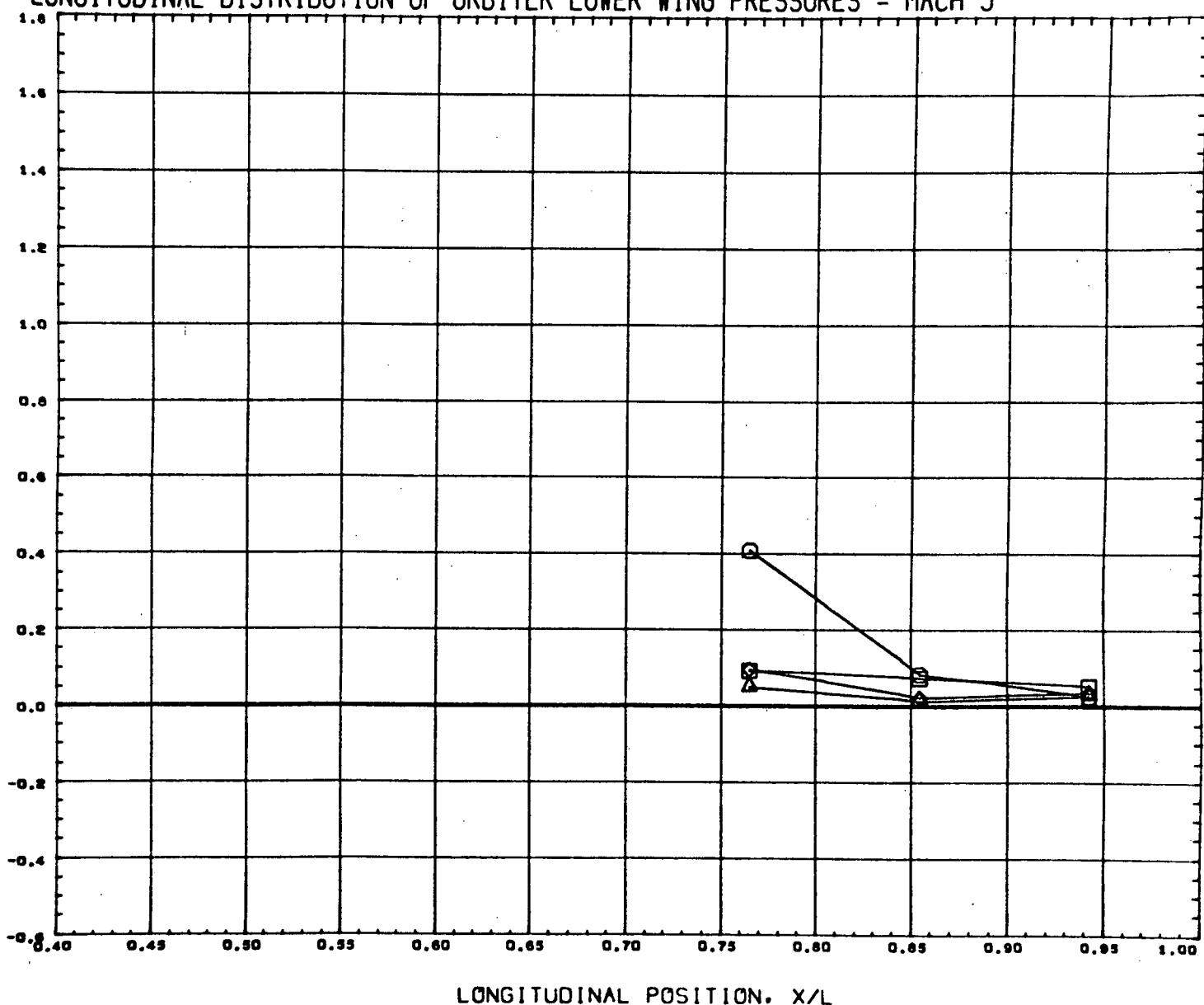
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8594•

PAGE 894

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL DELTAX Y/B DELTAZ

□ 0.179 0.568 0.106

△ 0.041

◊ 0.103

◆ 0.164

PARAMETRIC VALUES

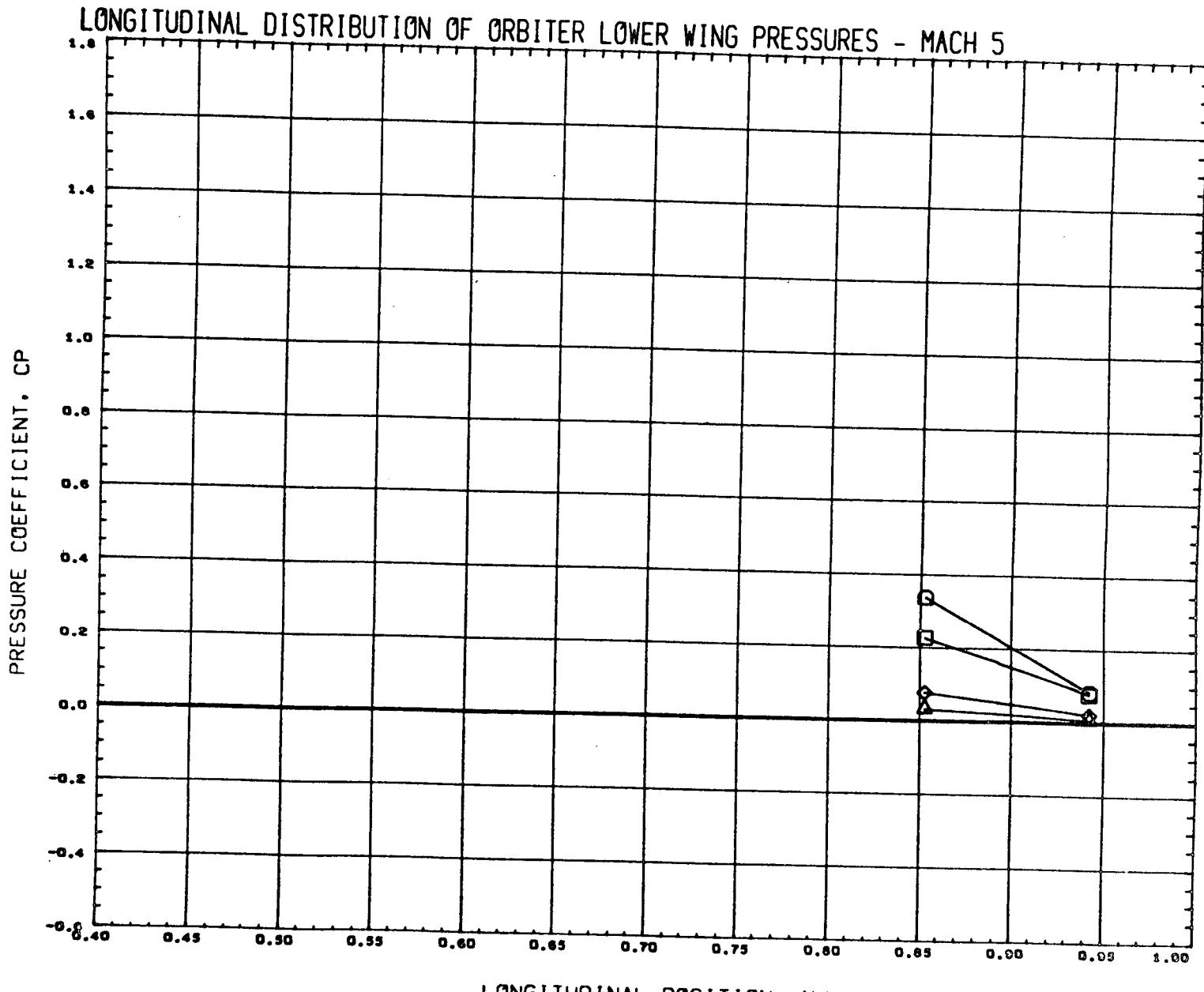
ALPHAB	9.035	MACH	4.970
ALPHAT	0.000	ORBPOW	0.000
BSTPOW	0.000		

REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8594•

PAGE 895



SYMBOL DELTAX Y/B DELTAZ
 - 0.179 0.738 0.106
 △ 0.041
 ◊ 0.103
 □ 0.164

PARAMETRIC VALUES
 ALPHAB 5.035 MACH 4.070
 ALPHAI 0.000 ORBPOW 0.000
 BSTPOW 0.000

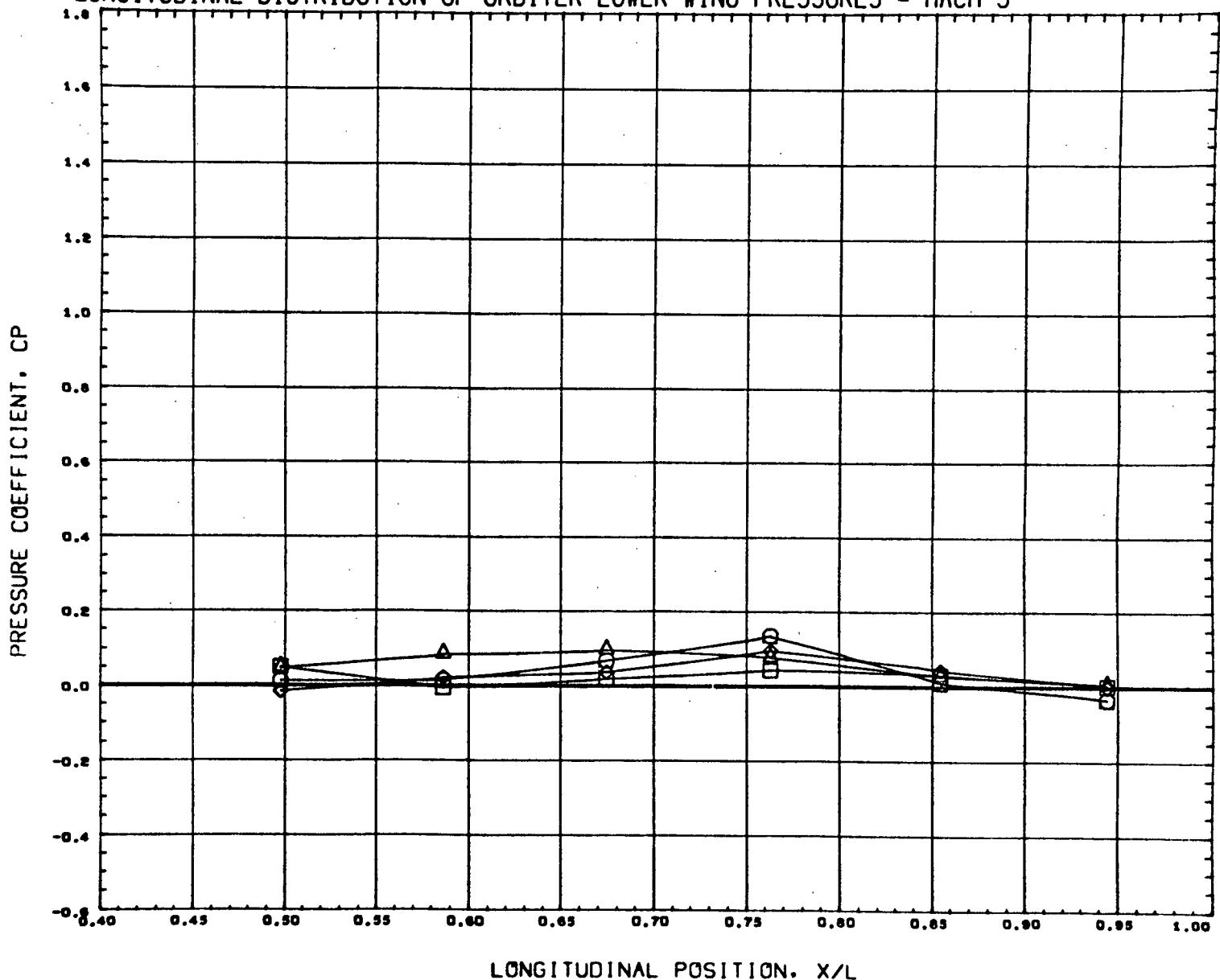
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8594•

PAGE 896

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	T/B	DELTA Z
○	- 0.179	0.230	0.106
△	0.041		
◊	0.103		
□	0.164		

PARAMETRIC VALUES		
ALPHAB	9.992	MACH
ALPHAI	0.000	ORBPOW
BSTPOW	0.000	

REFERENCE FILE

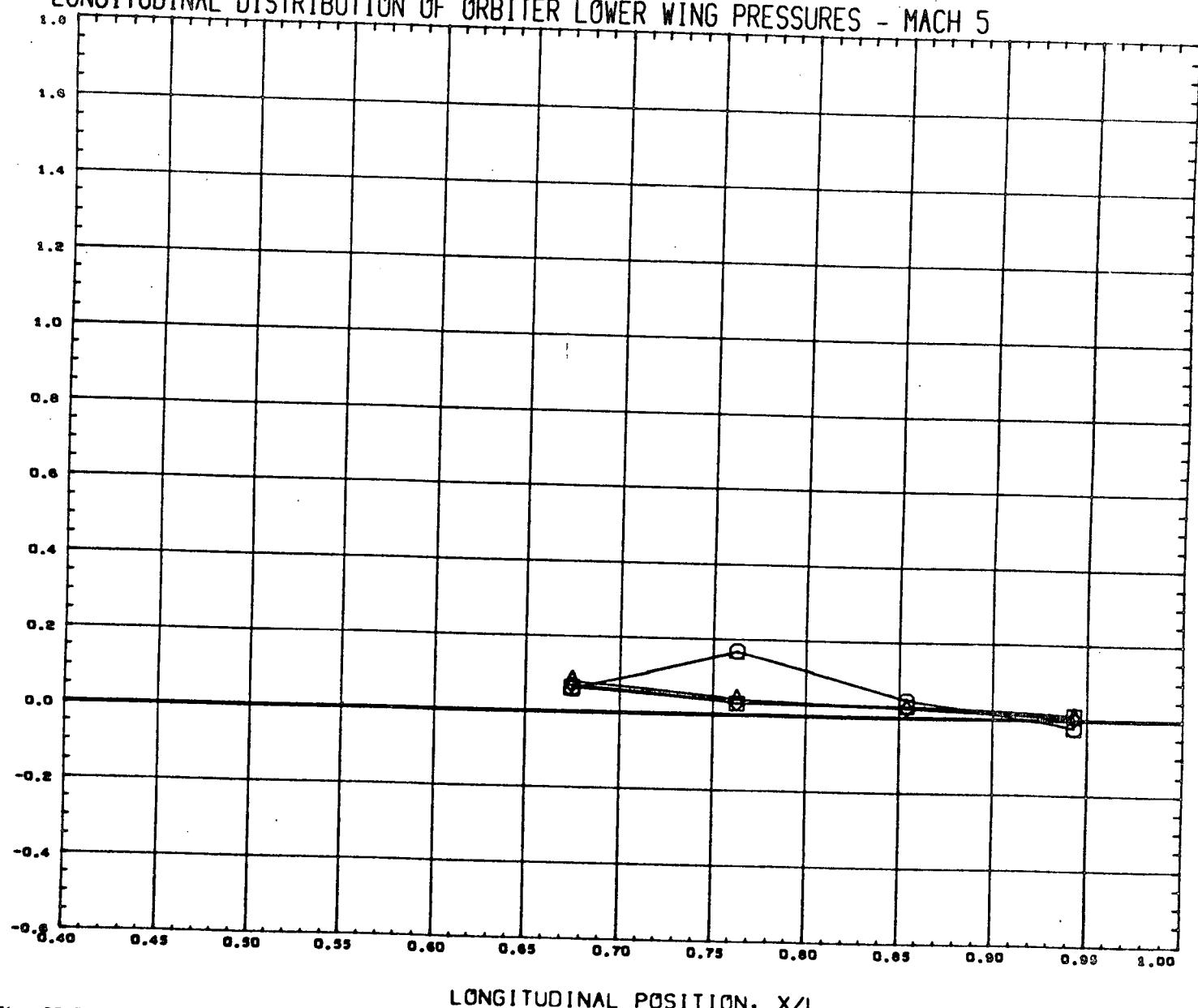
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8595•

PAGE 897

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL	DELTAX	Y/B	DELTAZ
-	0.179	0.399	0.106
◊	0.048		
△	0.103		
□	0.164		

PARAMETRIC VALUES			
ALPHAB	9.992	MACH	4.970
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

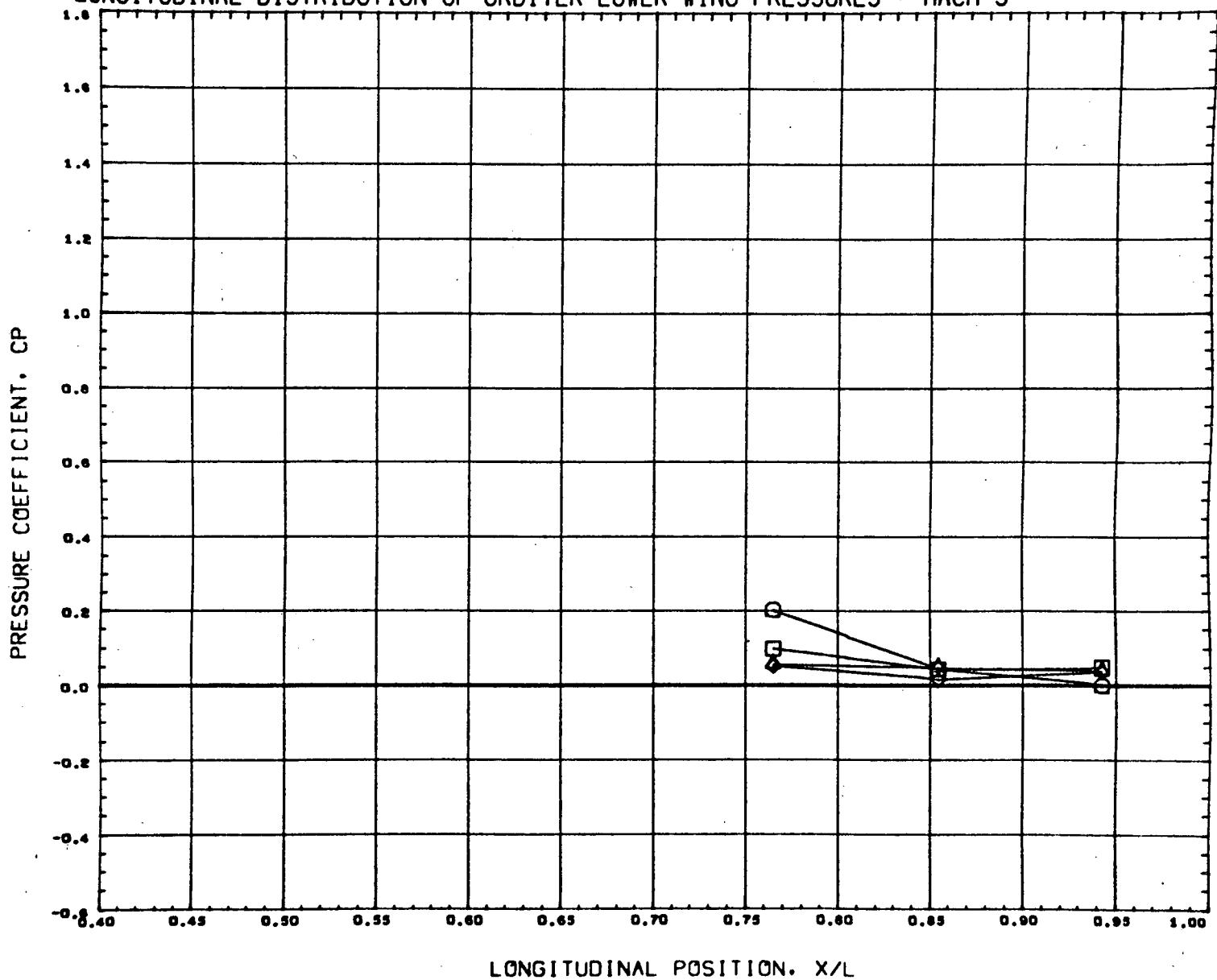
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8595•

PAGE 898

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL DELTAX Y/Z DELTAZ
 - 0.179 0.368 0.106
 □ 0.041
 ◇ 0.103
 × 0.164

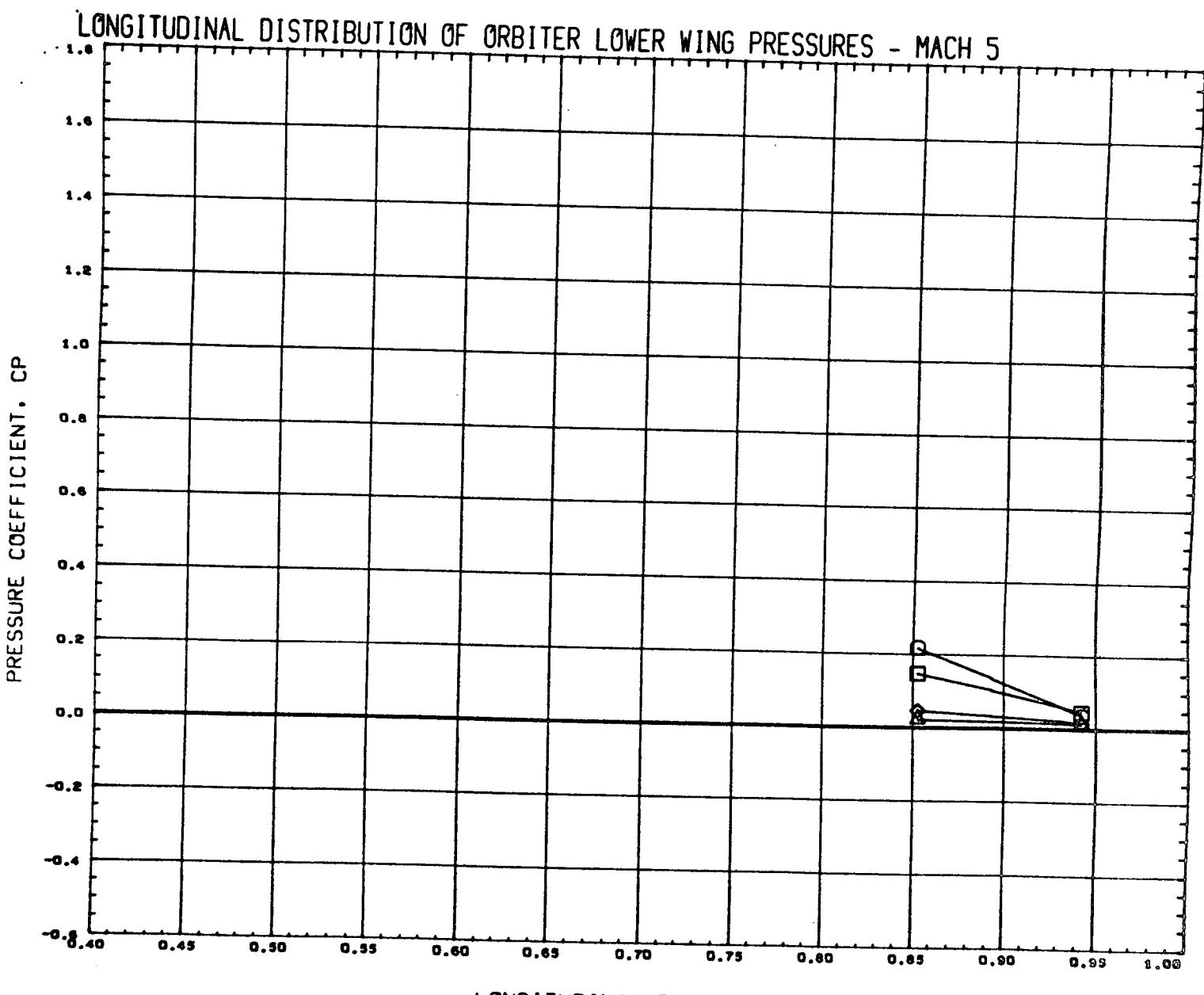
PARAMETRIC VALUES
 ALPHAB 9.992 MACH 4.970
 ALPHAT 0.000 ORBPOW 0.000
 BSTPOW 0.000

REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8595•

PAGE 899



PARAMETRIC VALUES

ALPHAB	9.992	MACH	4.970
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

REFERENCE FILE

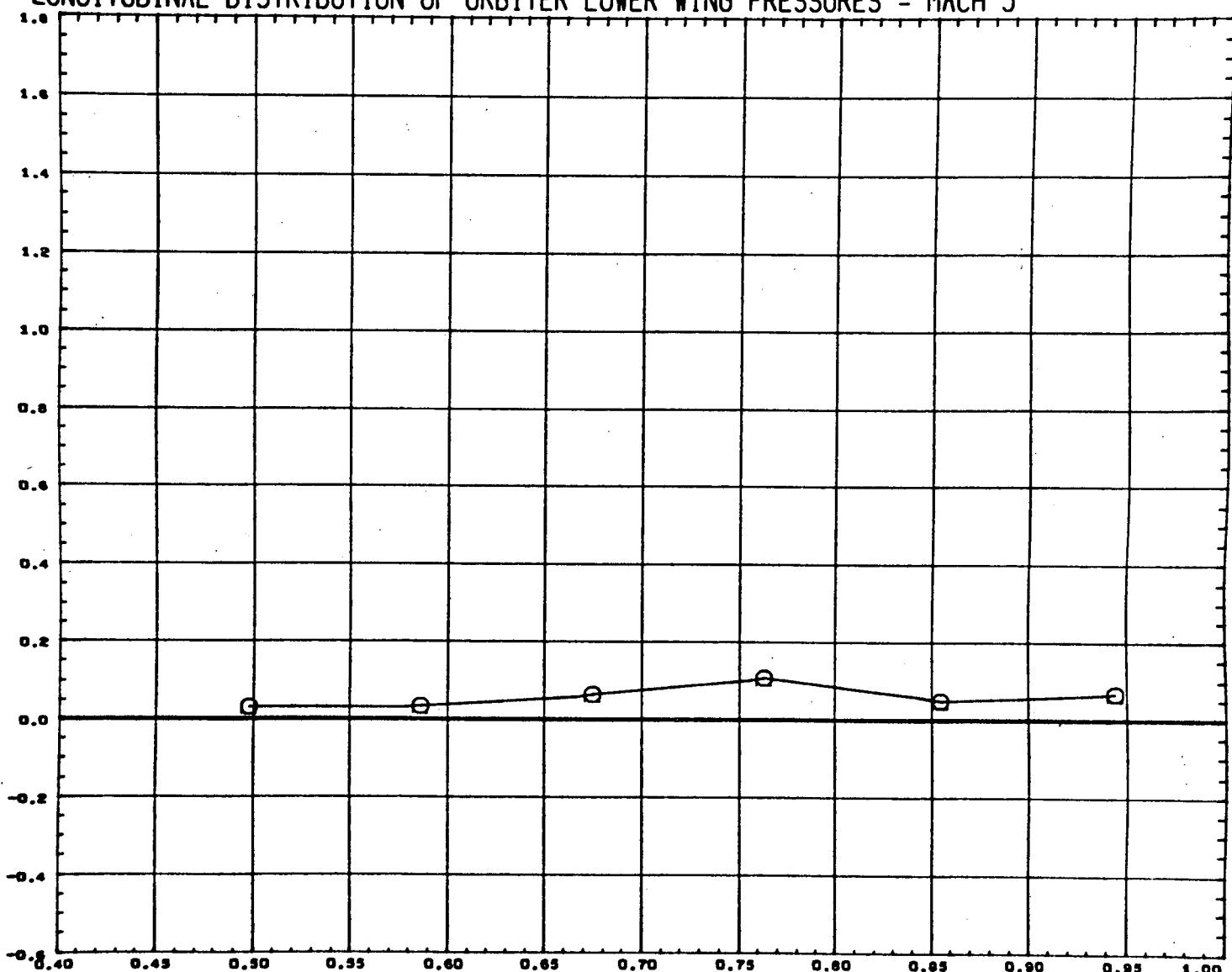
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8595•

PAGE 900

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



LONGITUDINAL POSITION. X/L

SYMBOL DELTAX T/C DELTAZ
C - 0.179 0.230 0.106

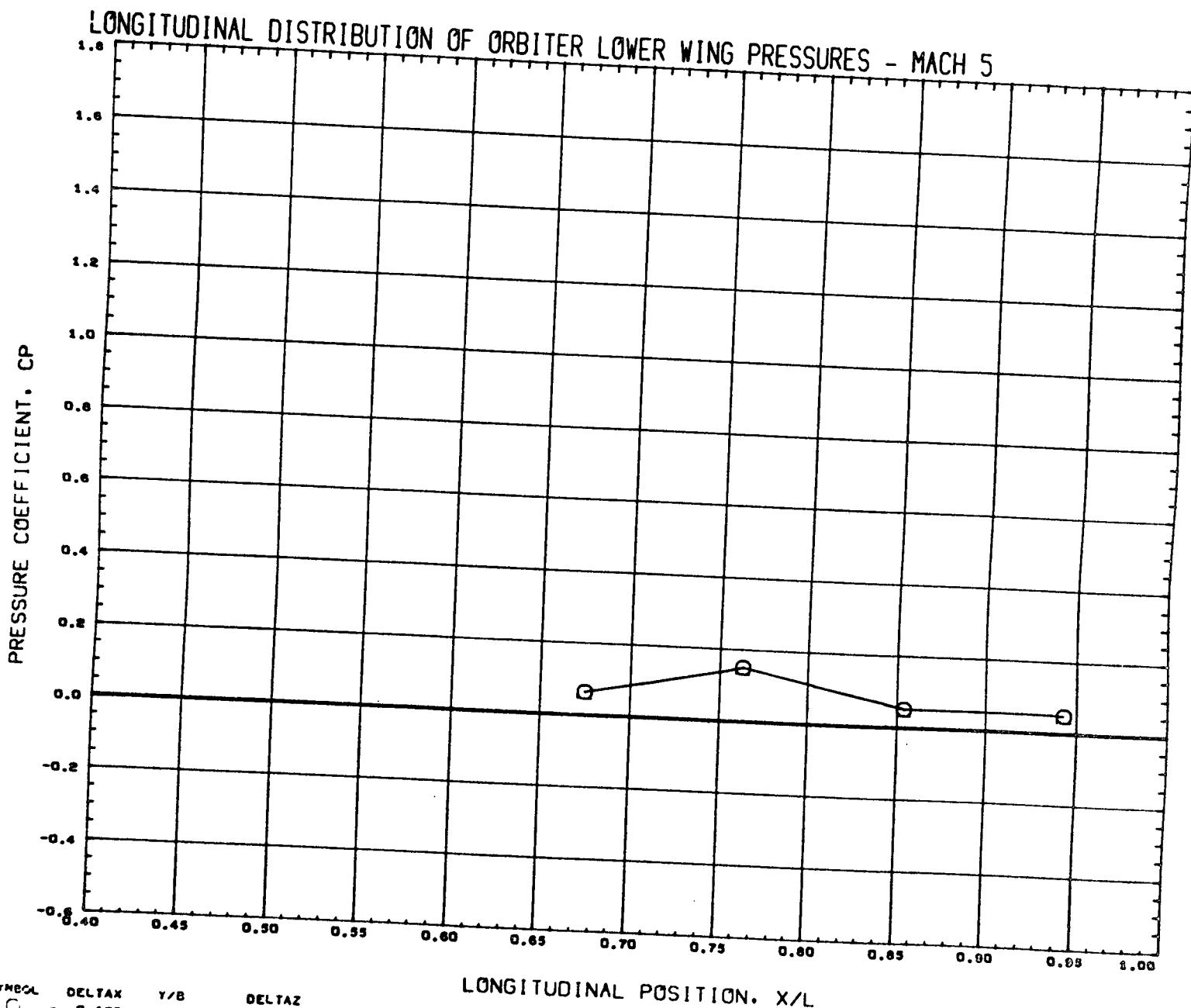
PARAMETRIC VALUES
ALPHAB - 9.980 MACH 4.970
ALPHAI 0.000 ORBPOW 100.000
BSPW 100.000

REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8601•

PAGE 901



SYMBOL DELTAX Y/B DELTAZ
 C - 0.179 0.399 0.106

PARAMETRIC VALUES
 ALPHAB - 9.980 MACH 4.970
 ALPHAI 0.000 ORBPOW 100.000
 BSTPOW 100.000

REFERENCE FILE

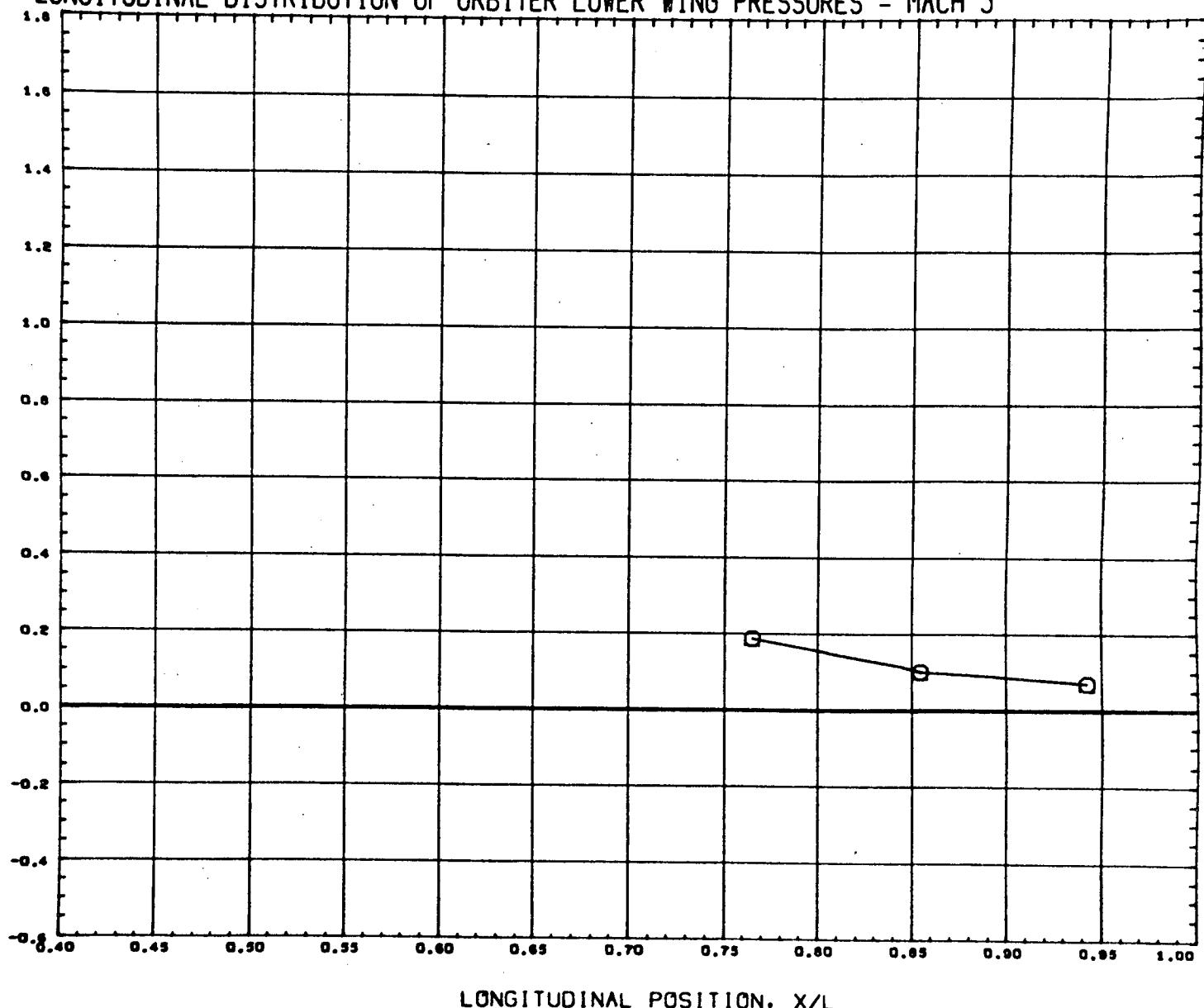
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8601•

PAGE 902

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



LONGITUDINAL POSITION. X/L

SYMBOL DELTAX Y/B DELTAZ
○ - 0.179 0.568 0.106

PARAMETRIC VALUES			
ALPHAB	- 9.980	MACH	4.970
ALPHAI	0.000	ORBPOW	100.000
BSTPOW	100.000		

REFERENCE FILE

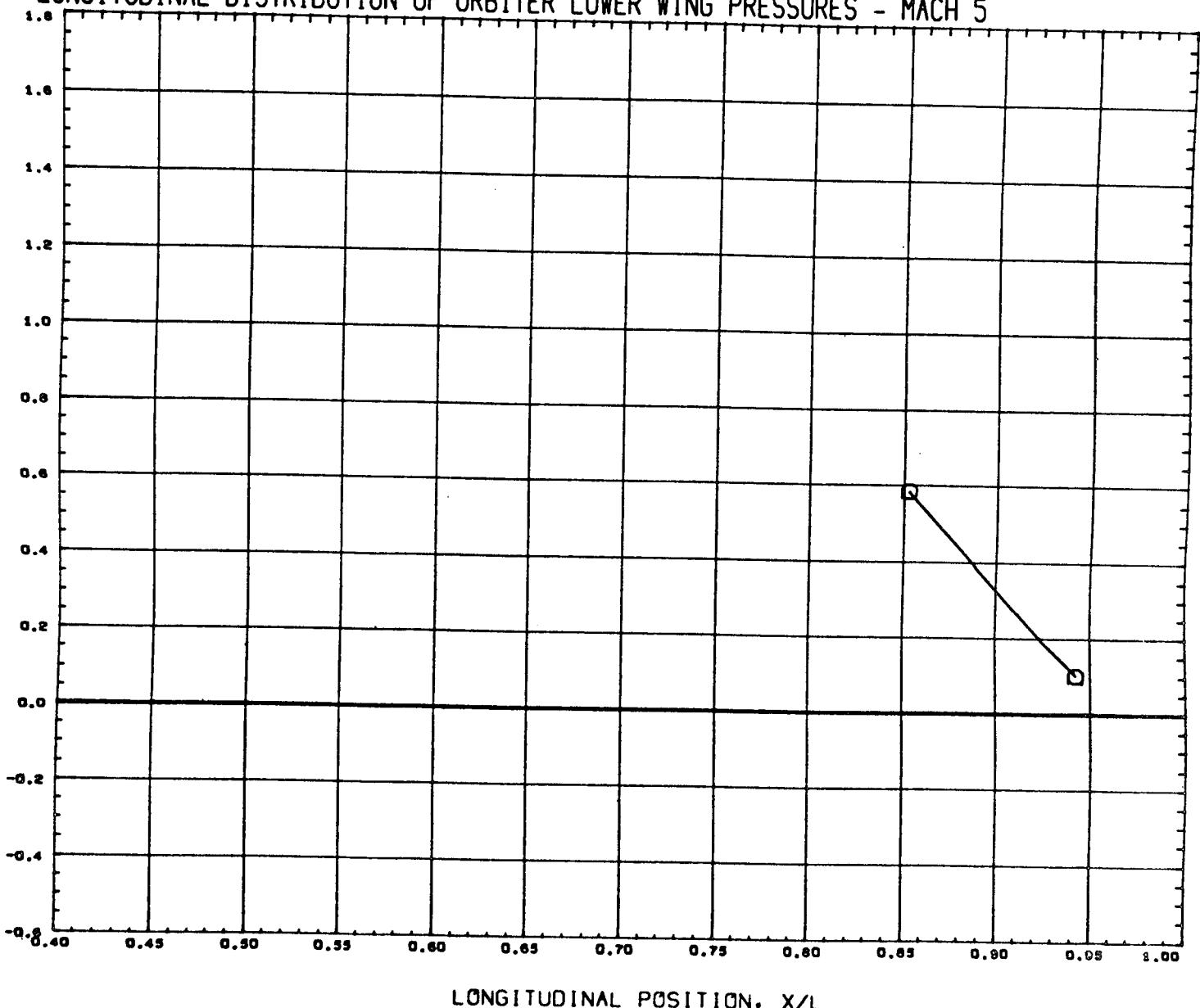
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8601•

PAGE 903

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL DELTAX Y/B DELTAZ
C - 0.179 0.736 0.106

PARAMETRIC VALUES			
ALPHAB	- 9.980	MACH	4.970
ALPHAI	0.000	ORBPOW	100.000
BSTPOW	100.000		

REFERENCE FILE

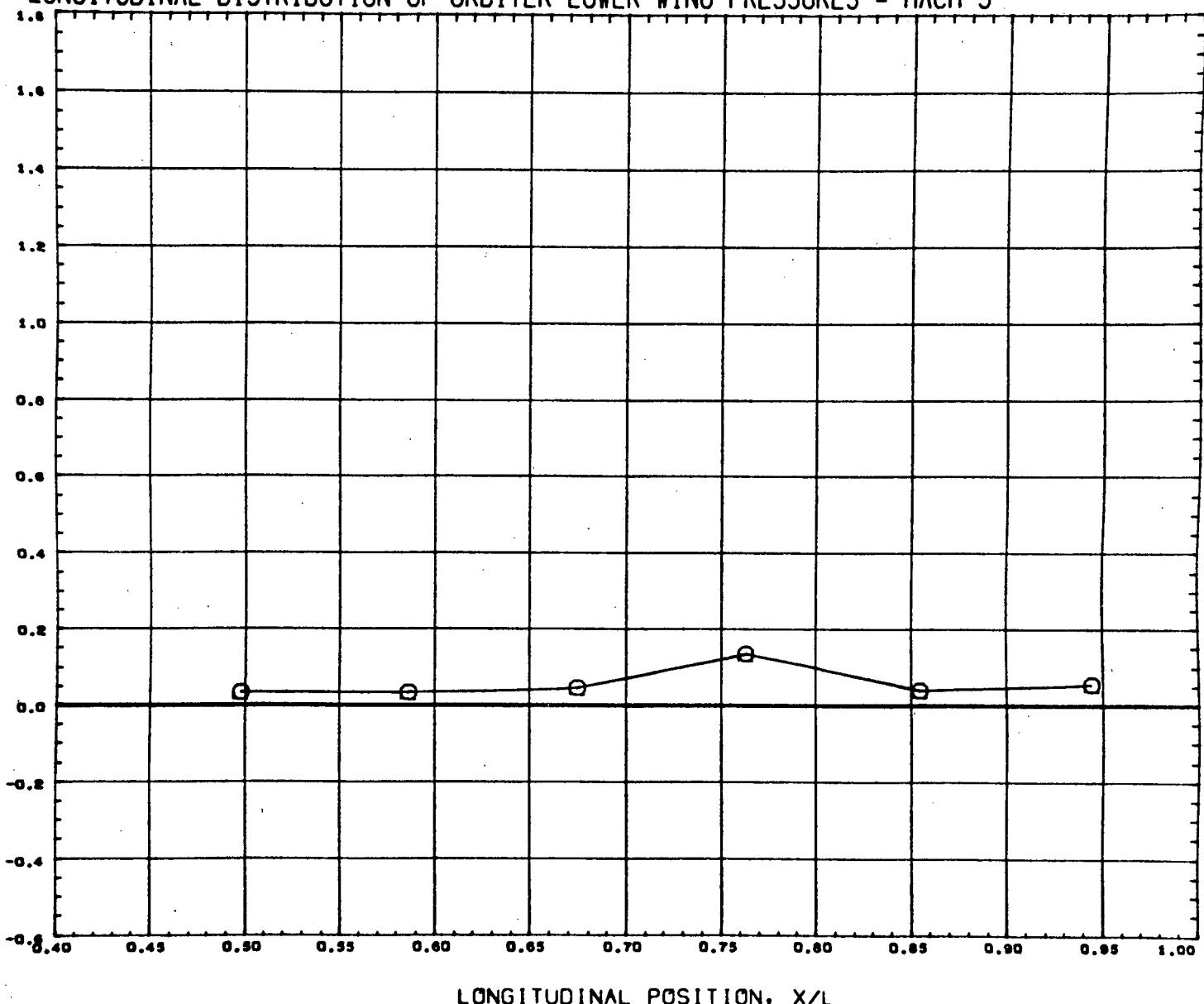
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8601•

PAGE 904

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION, X/L

SYMBOL DELTAX T/B DELTAZ
 O - 0.179 0.230 0.106

PARAMETRIC VALUES
 ALPHAB = 4.960 MACH 4.970
 ALPHA1 0.000 ORBPOW 100.000
 BSTPOW 100.000

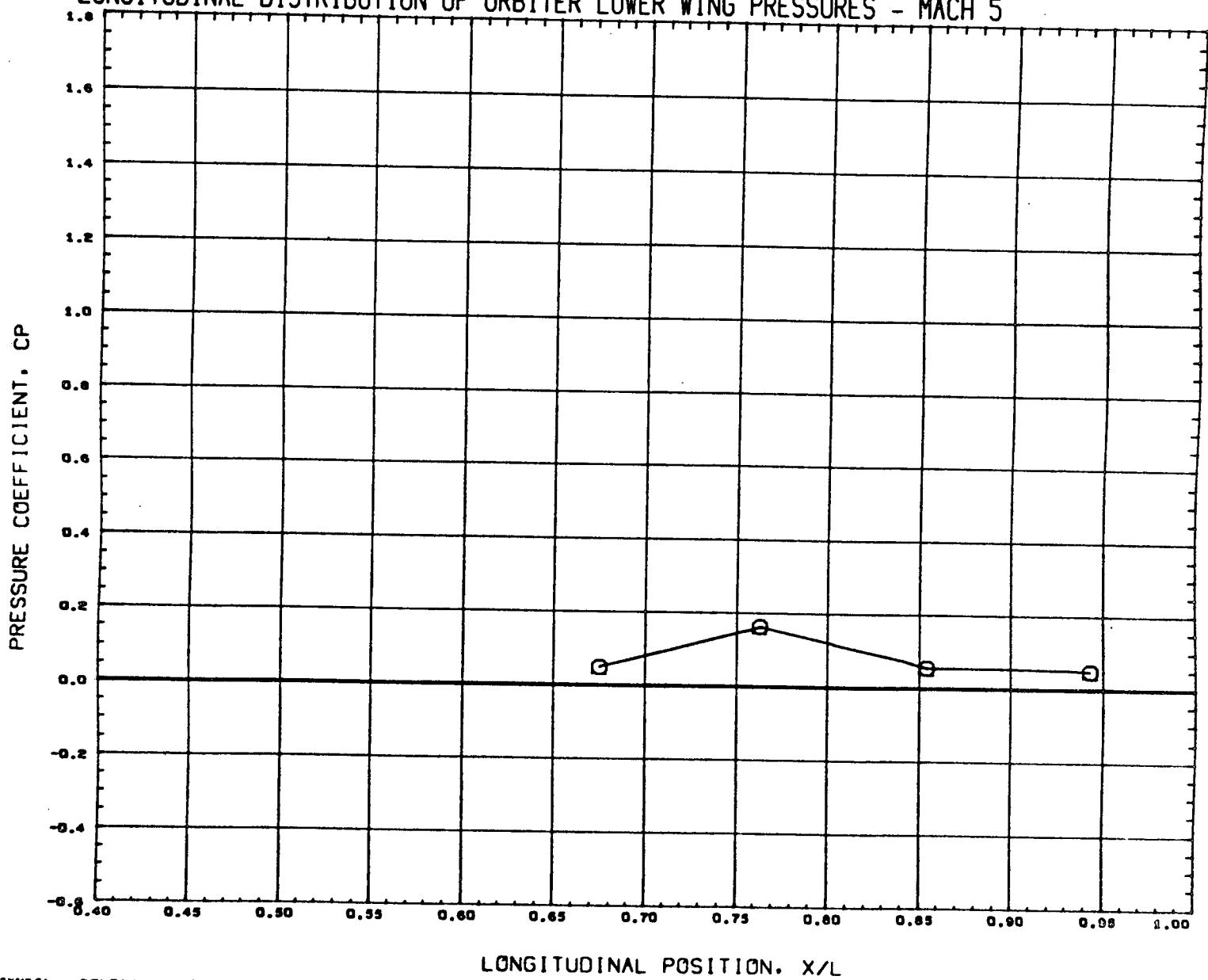
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8602•

PAGE 905

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL DELTAX T/B DELTAZ
 C - 0.179 0.399 0.106

LONGITUDINAL POSITION. X/L

		MACH	
ALPHAB	- 4.960	4.970	
ALPHAI	0.000		ORBPOW
BSTPOW	100.000		

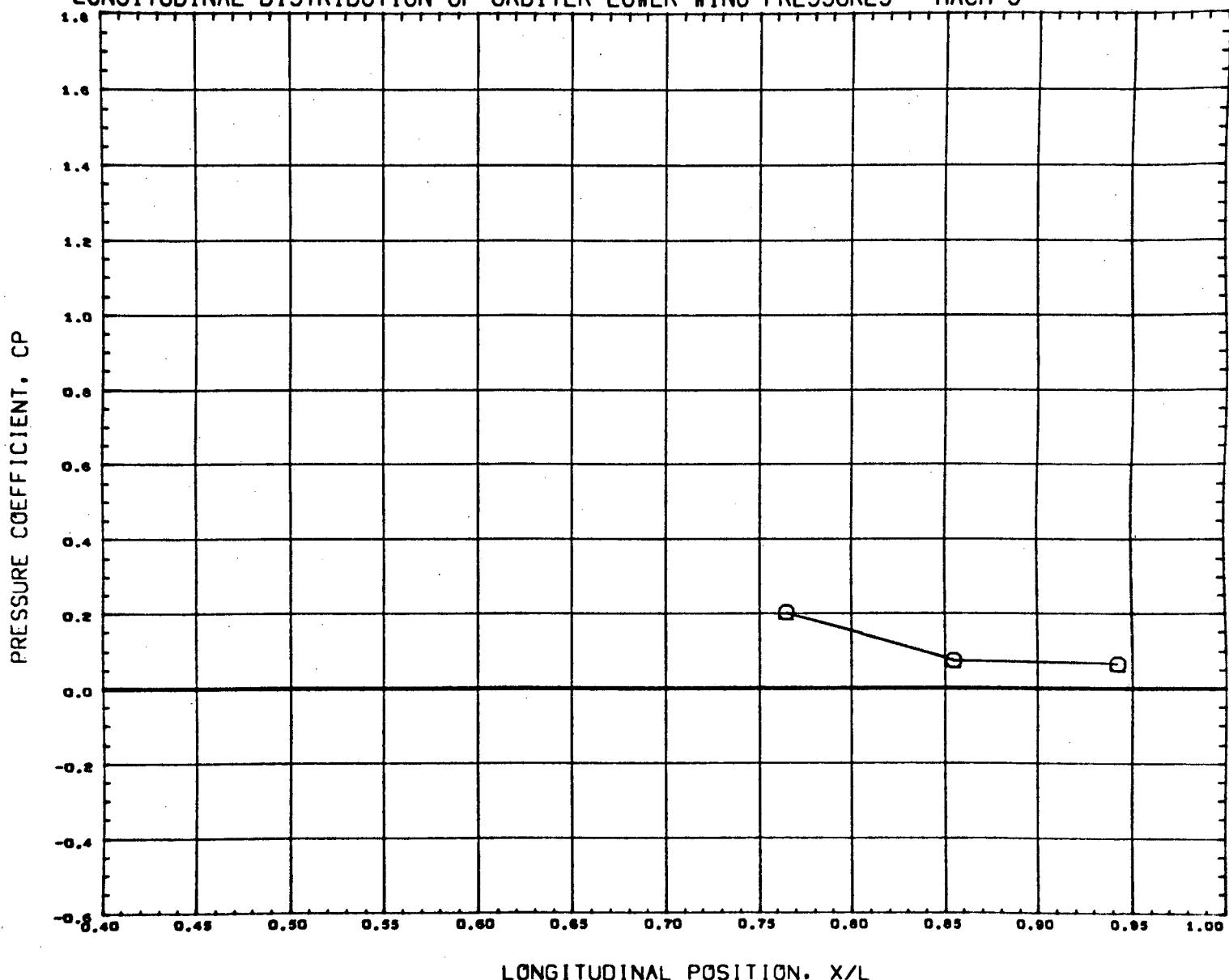
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8602•

PAGE 906

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL DELTAX T/B DELTAZ
○ - 0.179 0.968 0.106

PARAMETRIC VALUES
ALPHAB - 4.960 MACH 4.970
ALPHAI 0.000 ORBPOW. 100.000
BSPPOW 100.000

REFERENCE FILE

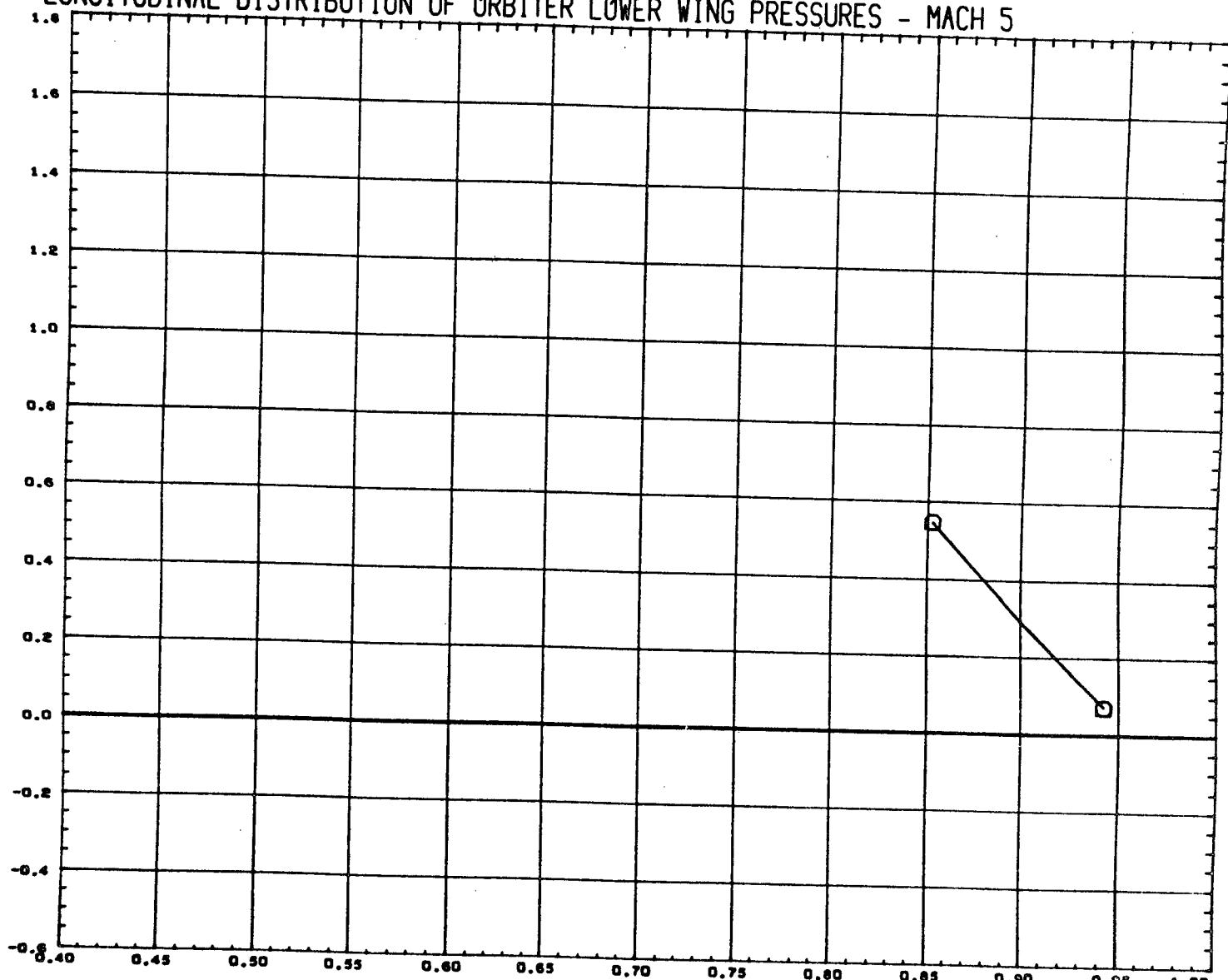
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8602•

PAGE 907

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION, X/L

SYMBOL DELTAX Y/B DELTAZ
□ - 0.179 0.736 0.106

PARAMETRIC VALUES
 ALPHAB = 4.960 MACH = 4.970
 ALPHAI = 0.000 ORBPOW = 100.000
 BSTPOW = 100.000

REFERENCE FILE

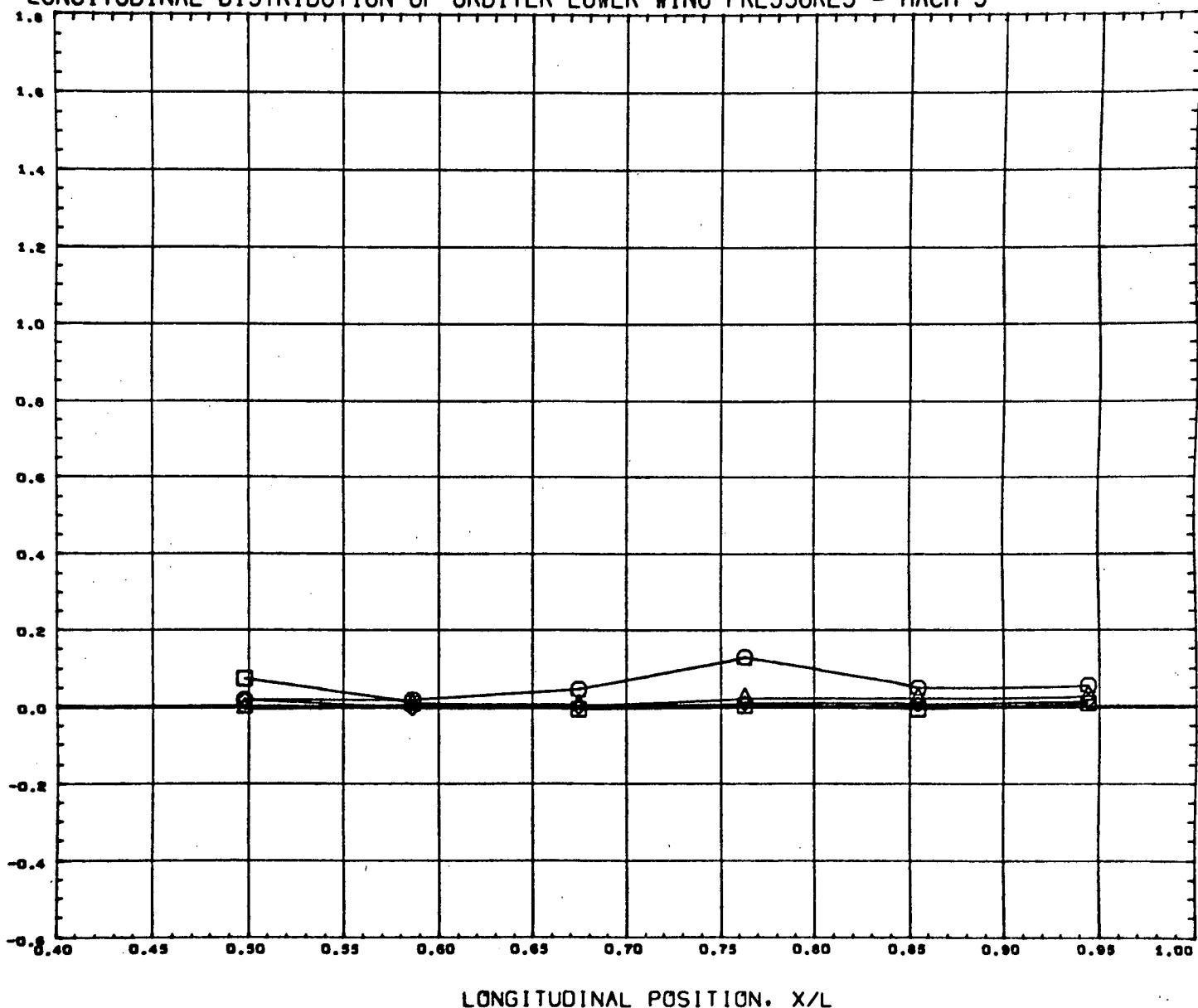
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8602•

PAGE 908

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
-	0.179	0.230	0.106
△	0.041		
○	0.103		
□	0.164		

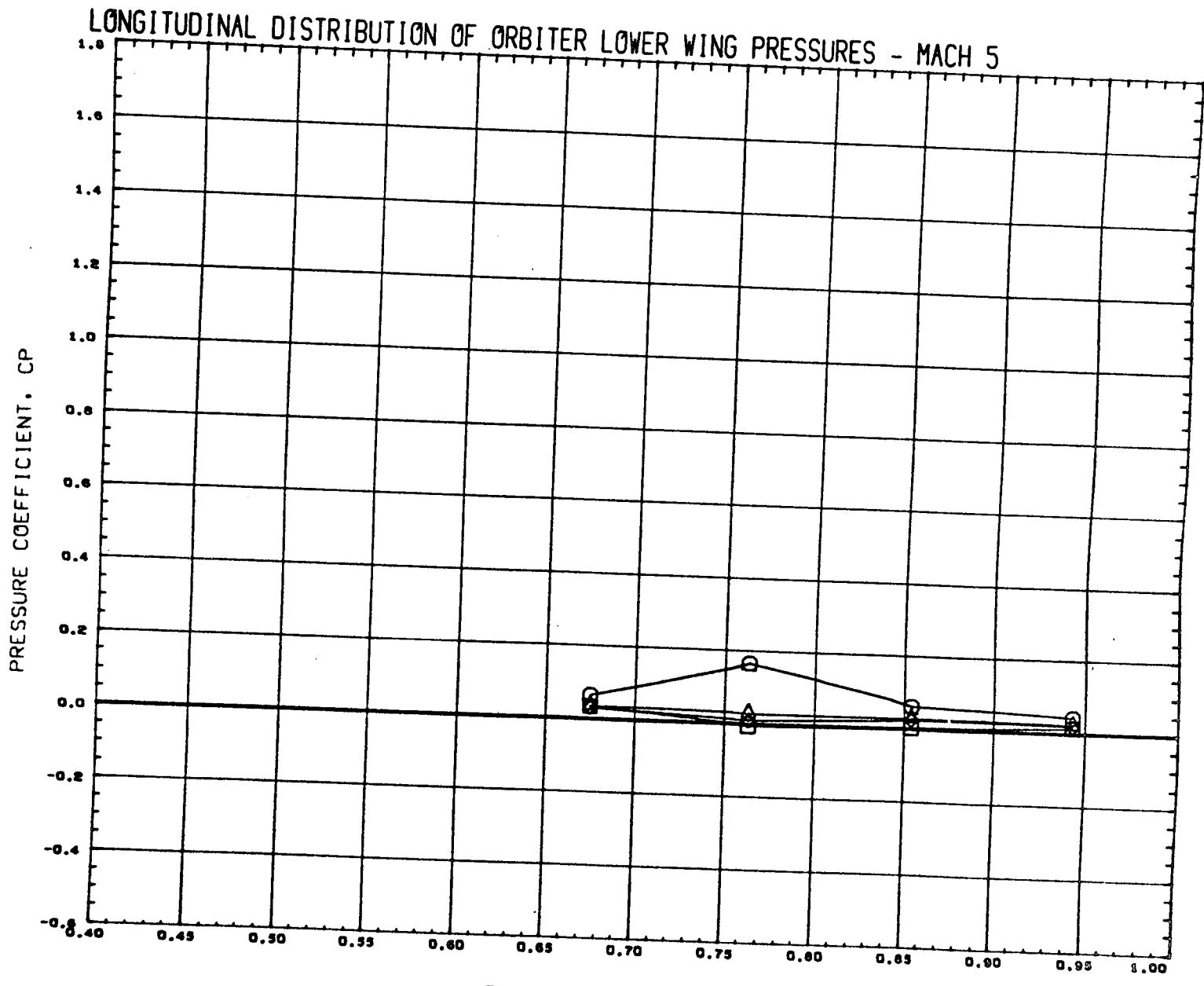
PARAMETRIC VALUES	
ALPHAB	0.000
ALPHAI	0.000
BSTPOW	100,000

REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8603•

PAGE 909



SYMBOL DELTA X T/B DELTA Z
 Δ -0.179 0.399 0.106
 \diamond 0.041
 \square 0.103
 \triangle 0.164

PARAMETRIC VALUES
ALPHAB 0.000 MACH 4.970
ALPHAI 0.000 ORBPOW 100.000
BBTPOW 100.000

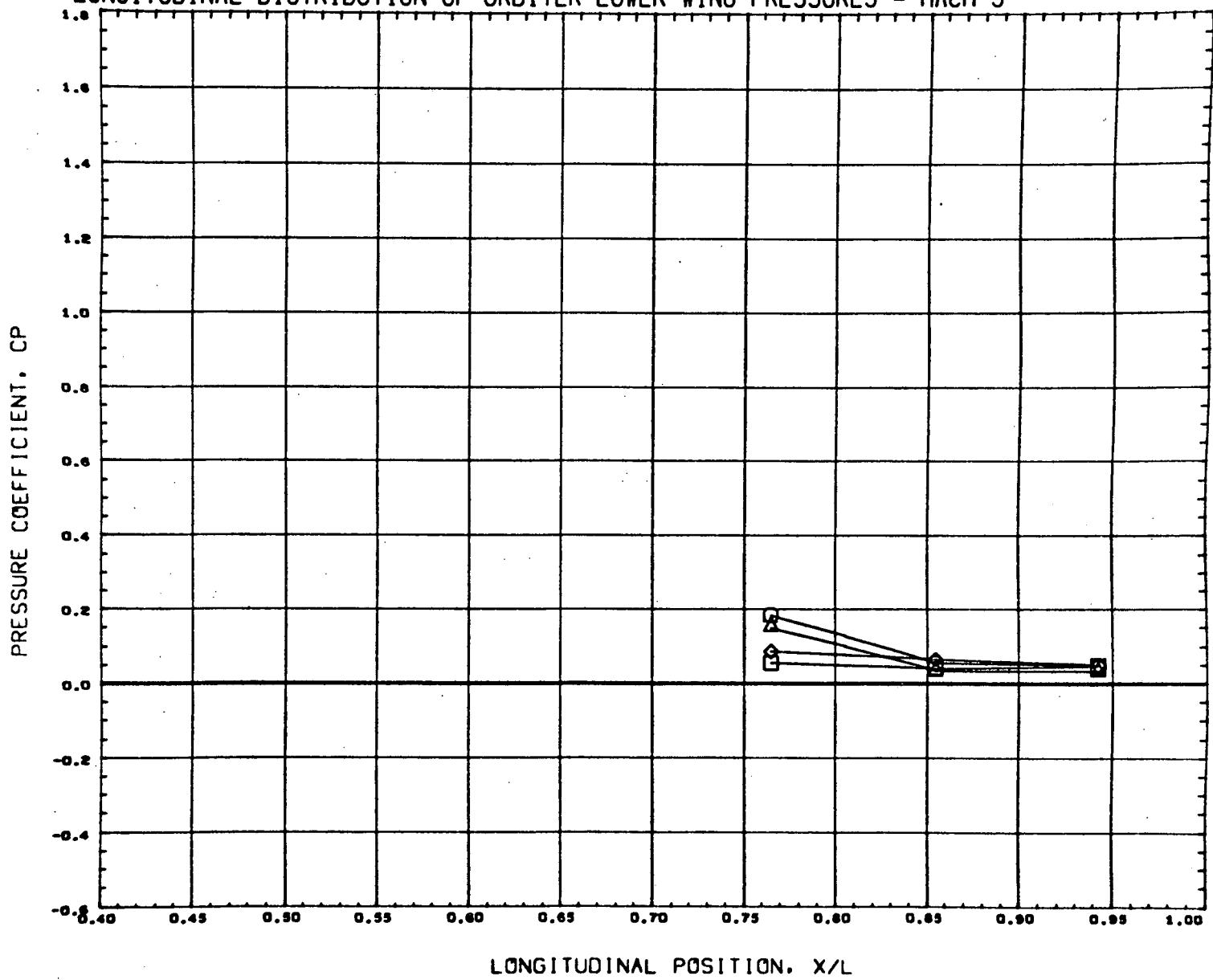
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8603•

PAGE 910

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL DELTAX Y/B DELTAZ

- Δ - 0.179 0.569 0.106
- \diamond - 0.041
- \square - 0.103
- \square - 0.164

PARAMETRIC VALUES

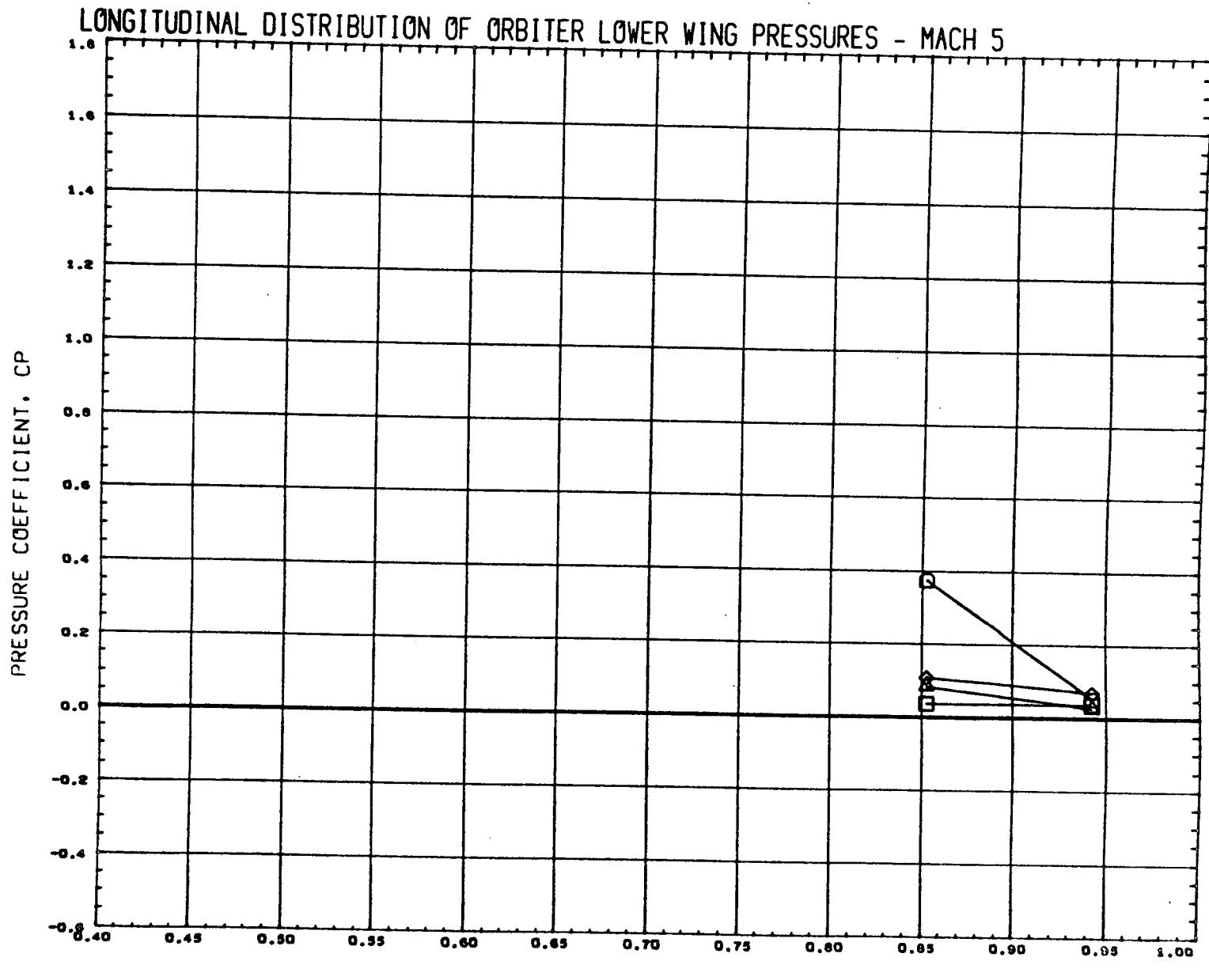
ALPHAB	0.000	MACH	4.970
ALPHAI	0.000	ORBPOW	100.000
BSTPOW	100.000		

REFERENCE FILE

AEDC VA1163 MOAC ORBITER (LOWER WING)

•HT8603•

PAGE 911



SYMBOL	DELTA X	Y/B	DELTA Z
-	0.179	0.736	0.106
◊	0.041		
○	0.103		
□	0.164		

PARAMETRIC VALUES		
ALPHAB	0.000	MACH 4.970
ALPHAI	0.000	ORBPOW 100.000
BSTPOW	100.000	

REFERENCE FILE

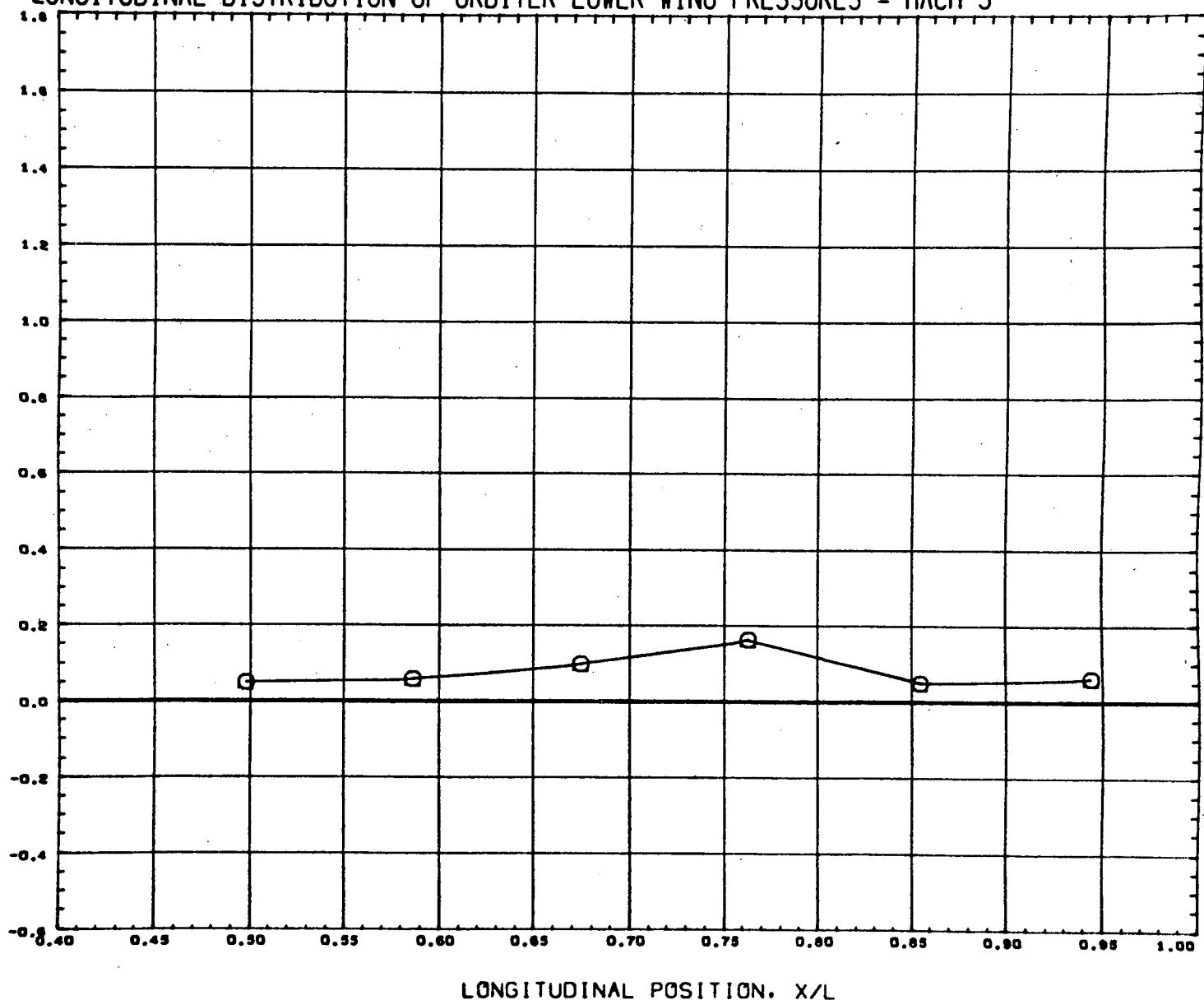
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8603•

PAGE 912

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION, X/L

SYMBOL DELTAX Y/B DELTAZ
□ - 0.179 0.230 0.106

PARAMETRIC VALUES			
ALPHAB	5.040	MACH	4.970
ALPHAI	0.000	ORBPOW	100.000
BSTPOW	100.000		

REFERENCE FILE

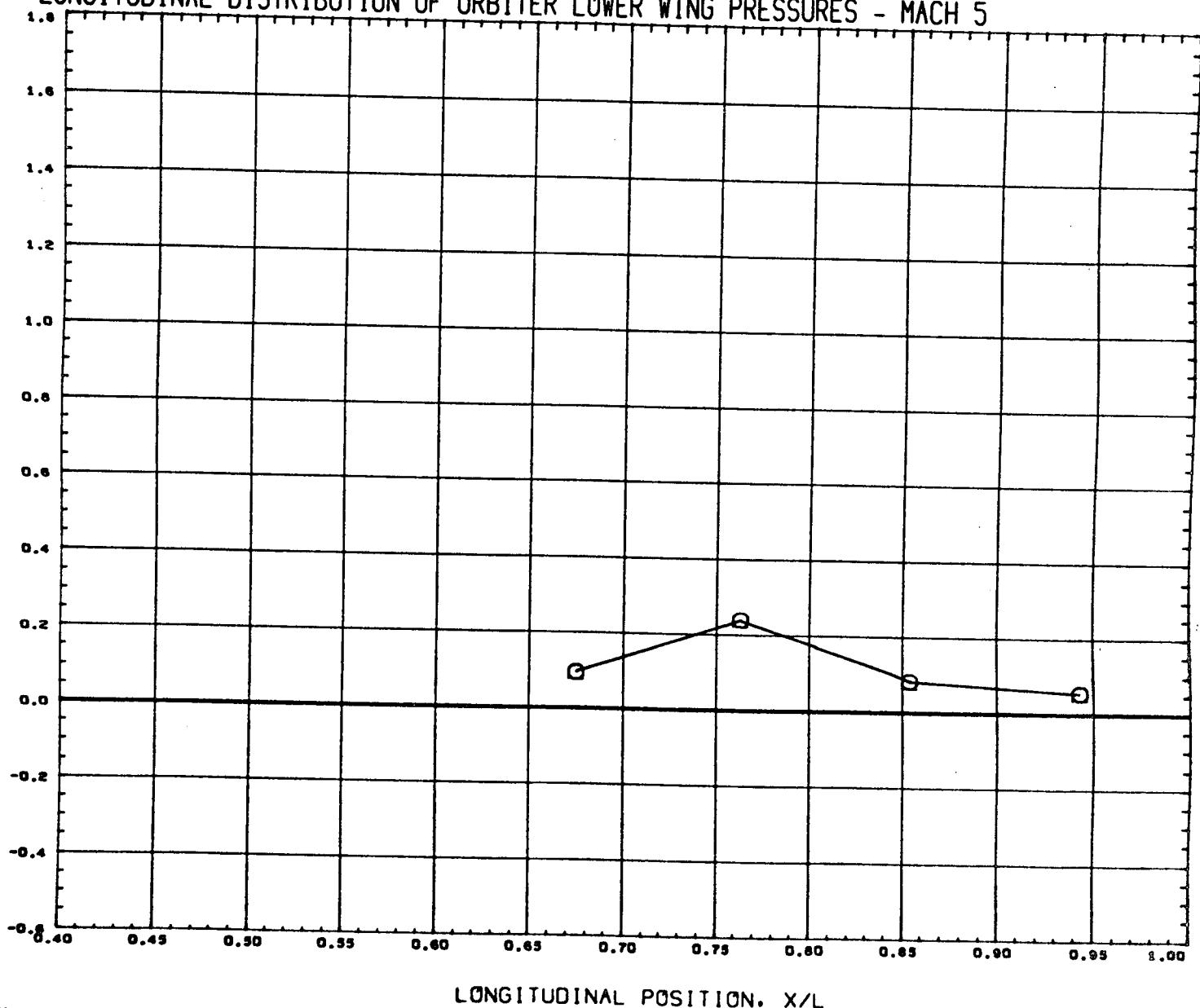
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8604•

PAGE 913

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL DELTAX T/B DELTAZ
 C - 0.179 0.399 0.106

LONGITUDINAL POSITION, X/L

	ALPHAB	MACH
ALPHAI	0.040	4.970
BSTPOW	0.000	100.000
	100.000	

REFERENCE FILE

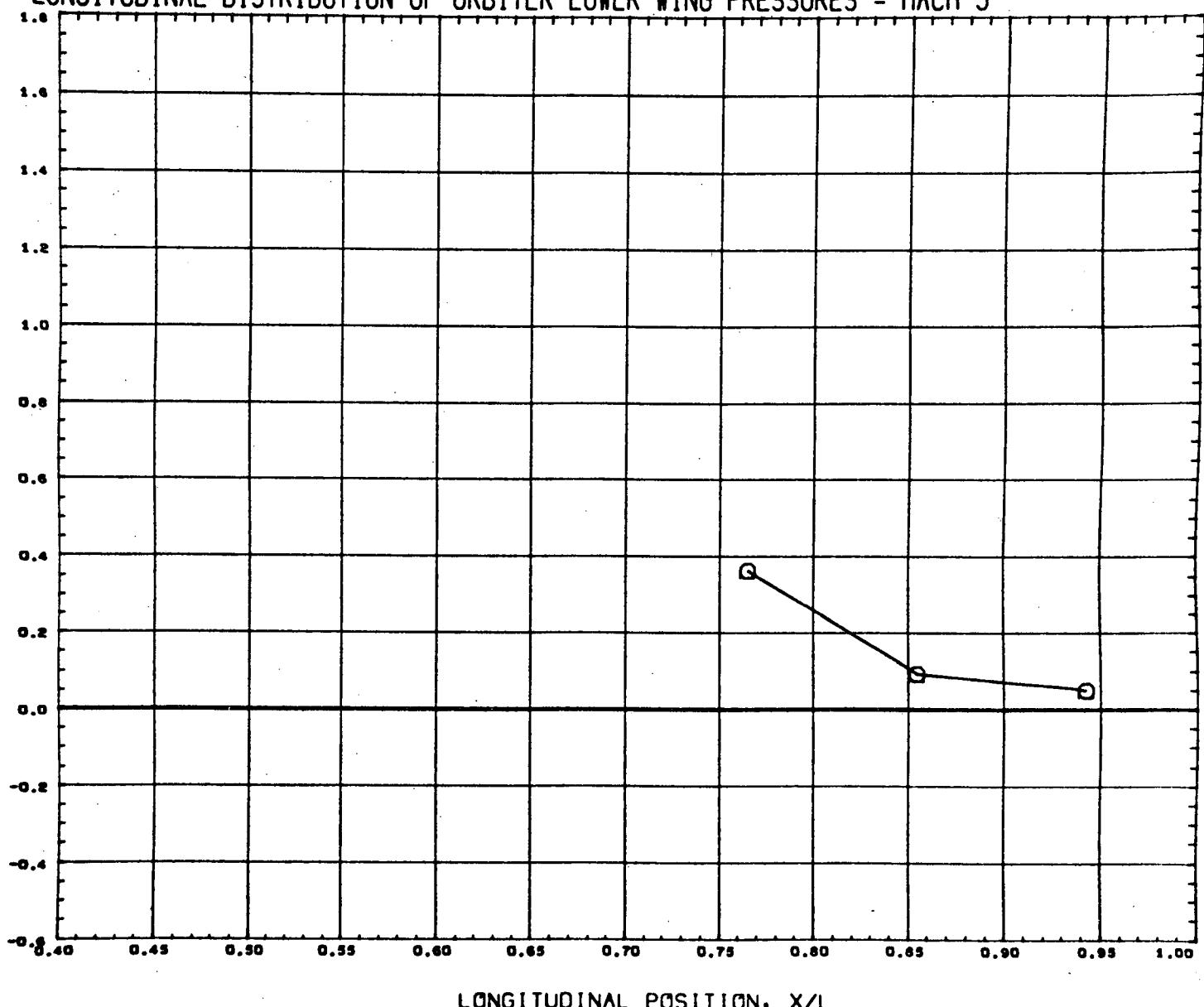
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8604•

PAGE 914

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION, X/L

SYMBOL DELTAX T/B DELTAZ
C - 0.179 0.966 0.106

PARAMETRIC VALUES			
ALPHAB	3.040	MACH	4.970
ALPHAT	0.000	ORBPOW	100,000
BSTPOW	100.000		

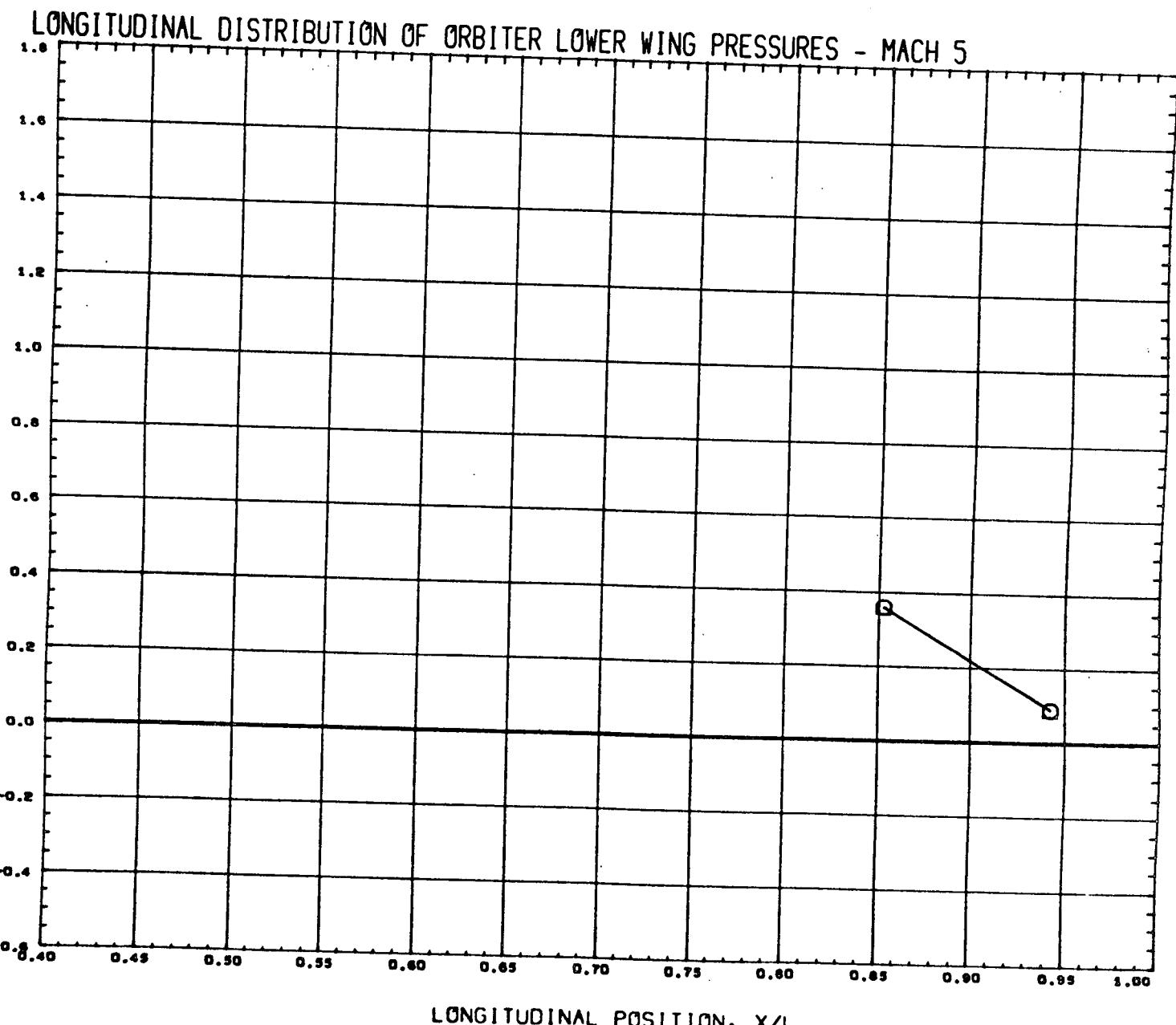
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8604•

PAGE 915

PRESSURE COEFFICIENT. CP



SYMBOL DELTAX Y/B DELTAZ
C - 0.179 0.736 0.106

PARAMETRIC VALUES
ALPHAB 5.040 MACH 4.970
ALPHAI 0.000 ORBPOW 100.000
BSPOW 100.000

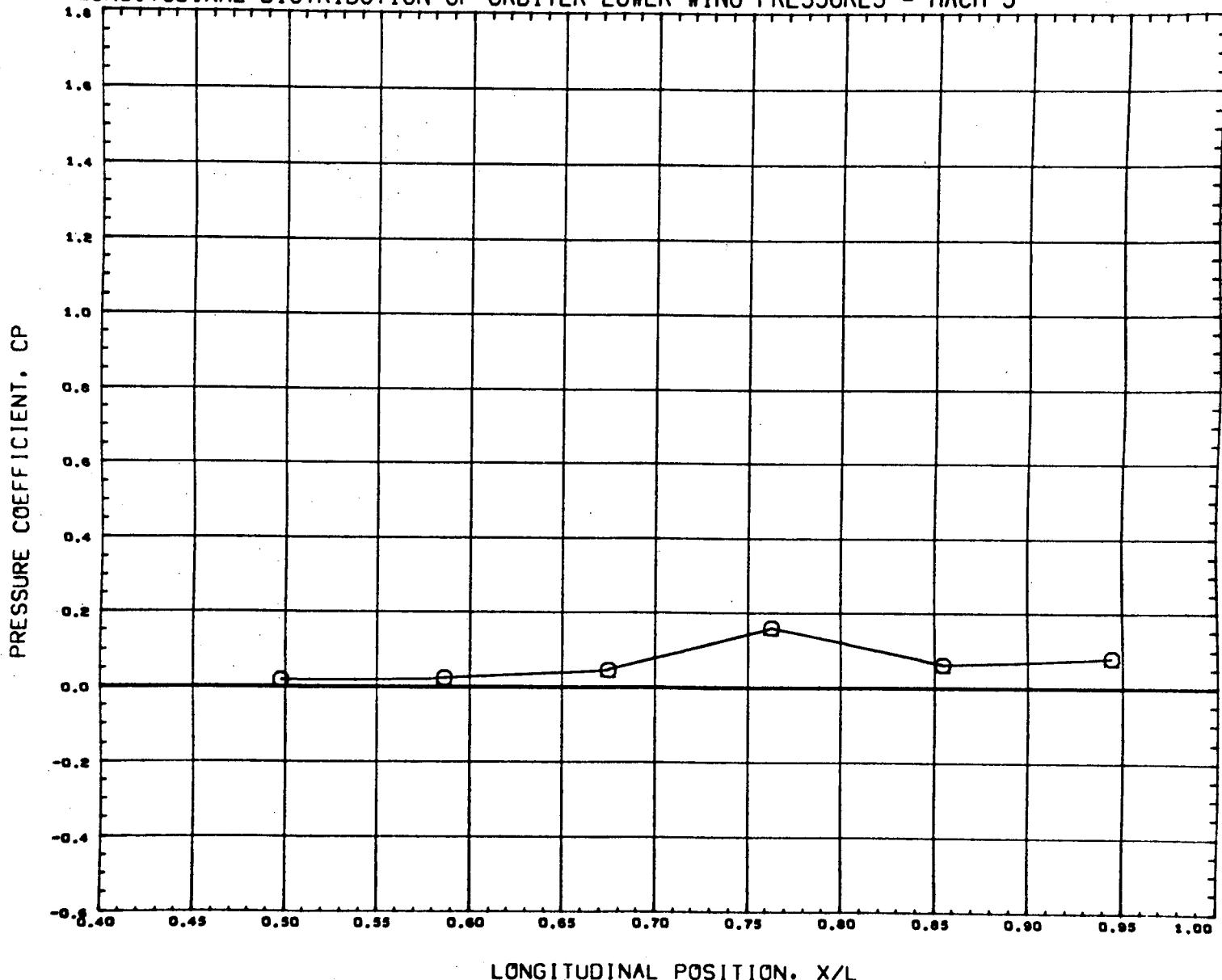
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8604•

PAGE 916

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL DELTAX Y/B DELTAZ
□ - 0.179 0.230 0.106

LONGITUDINAL POSITION. X/L

PARAMETRIC VALUES		
ALPHAS	9.990	MACH 4.970
ALPHAI	0.000	ORBPOW 100.000
BSTPOW	100.000	

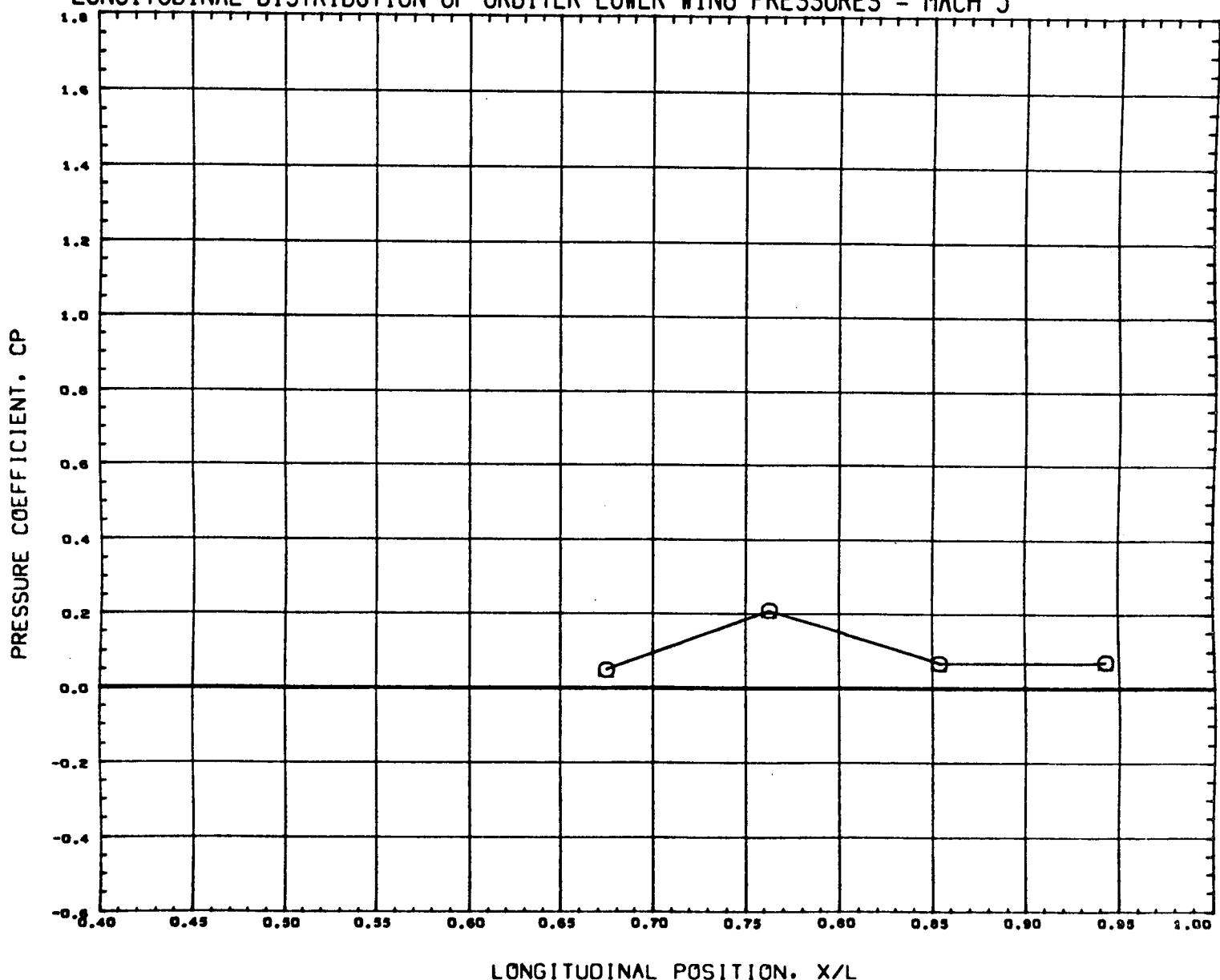
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8605•

PAGE 917

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL DELTAX T/B DELTAZ
C - 0.179 0.399 0.106

	ALPHAB	MACH
ALPHAI	9.990	4.970
BSTPOW	0.000	ORBPOW 100.000
	100.000	

REFERENCE FILE

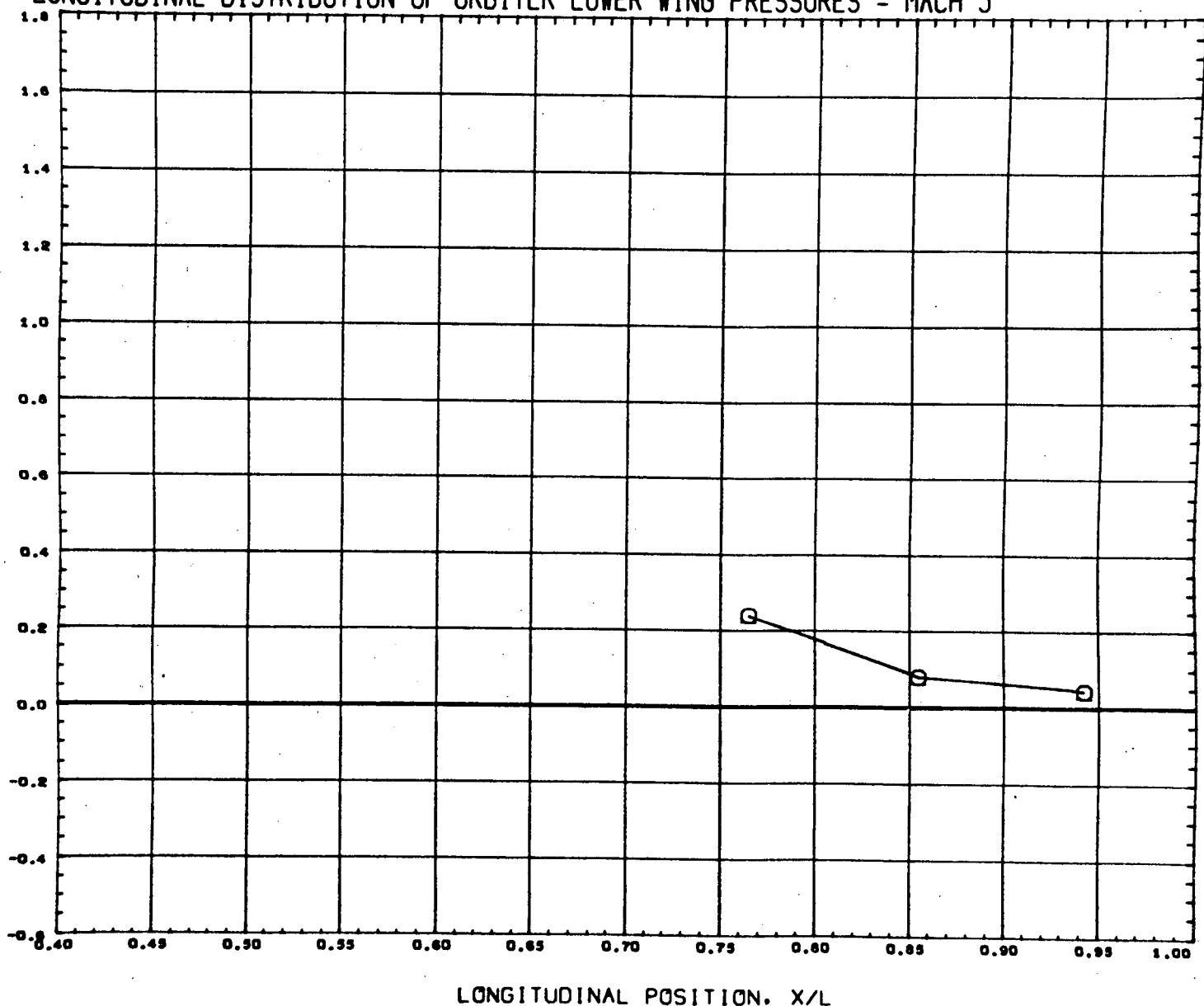
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8605•

PAGE 918

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL DELTAX T/B DELTAZ
C -0.179 0.966 0.106

	ALPHAB	MACH
ALPHAI	9.990	4.970
BSTPOW	0.000	ORBPOW 100.000
	100.000	

REFERENCE FILE

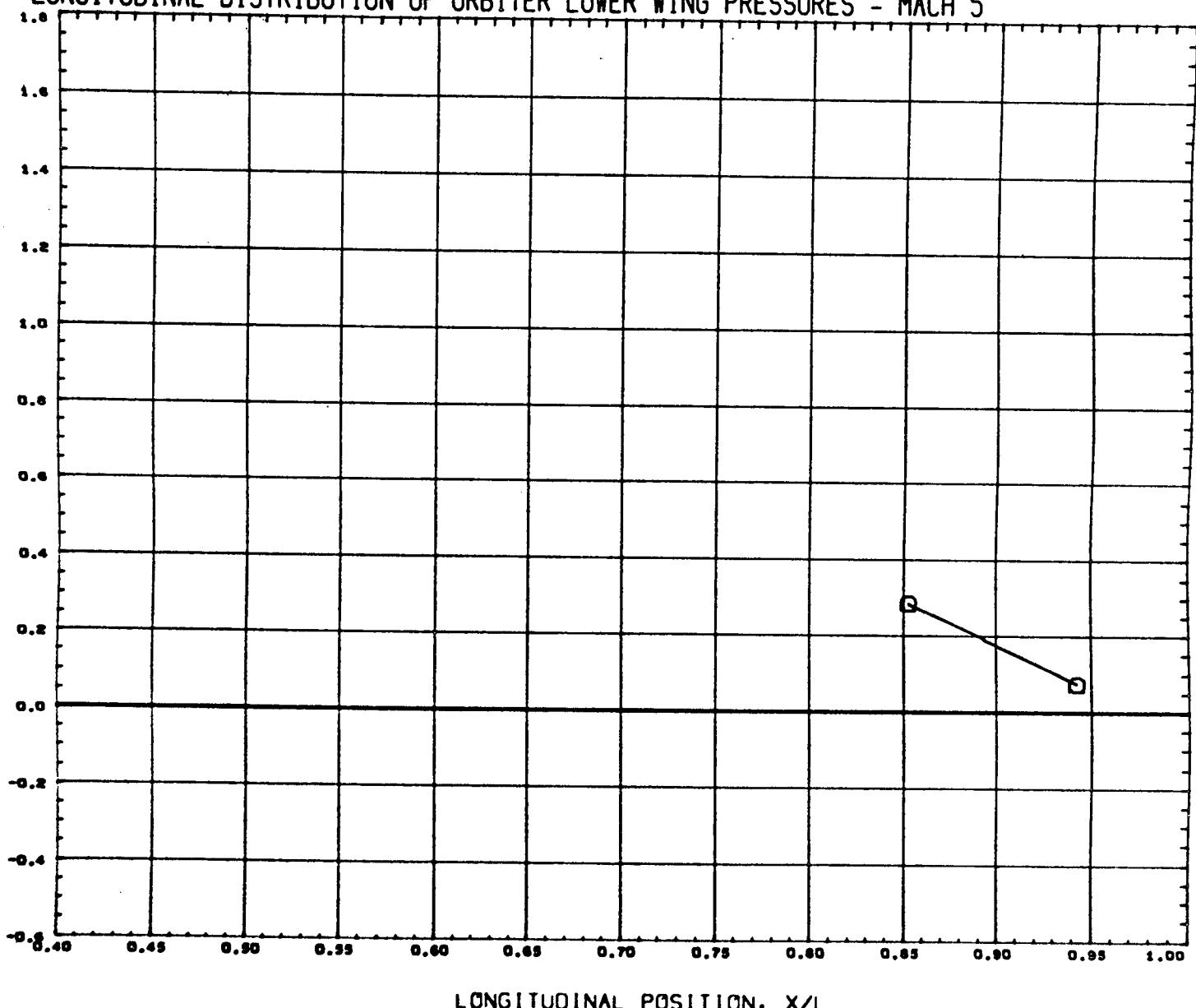
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8605•

PAGE 919

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



LONGITUDINAL POSITION. X/L

SYMBOL DELTAX Y/Z DELTAZ
C - 0.179 0.730 0.106

	ALPHAB	MACH	4.970
	ALPHAI	ORBPOW	100.000
BSTPOW	100.000		

REFERENCE FILE

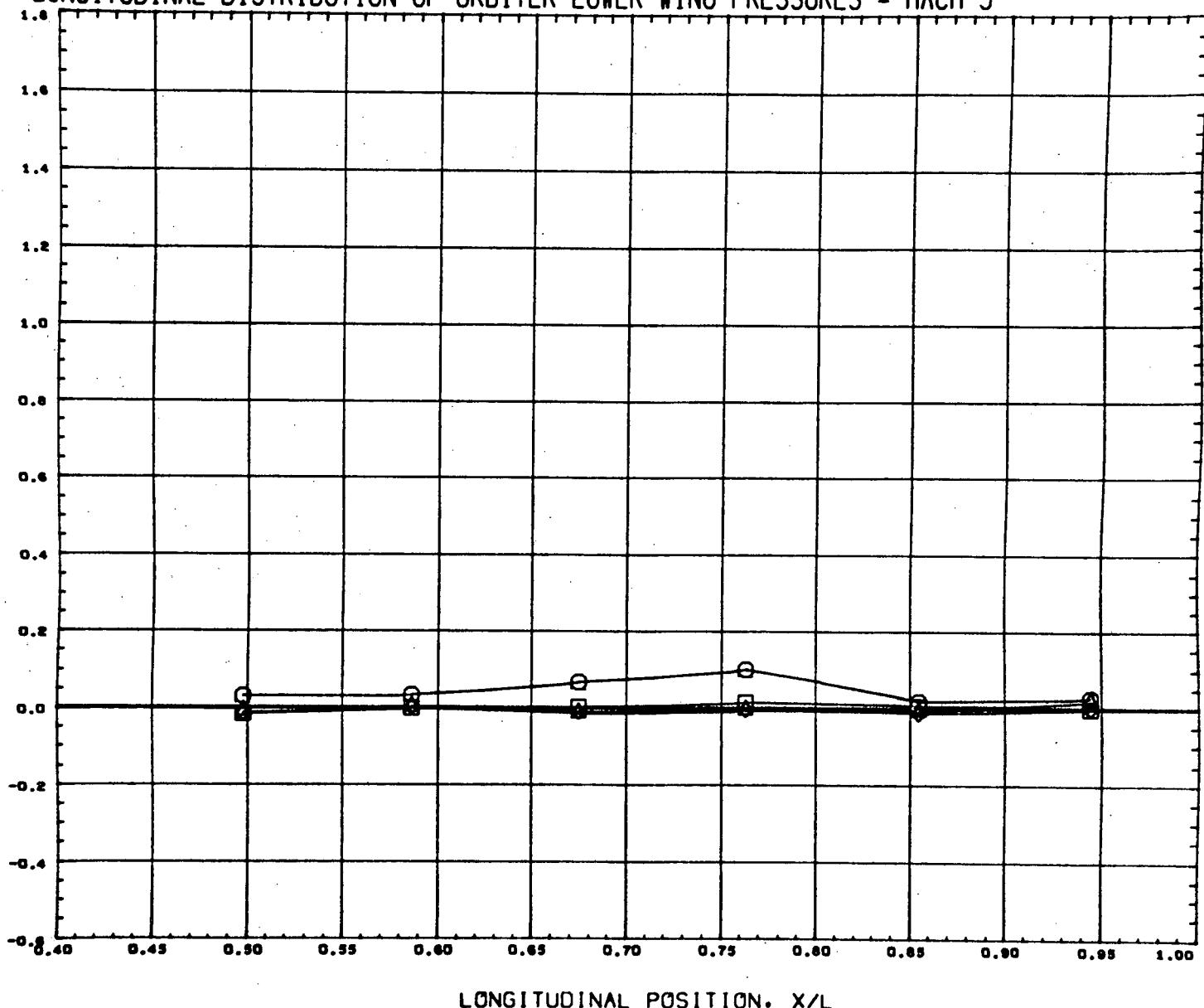
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8605•

PAGE 920

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



SYMBOL DELTAX Y/B DELTAZ

- 0.179 0.230 0.106

0.041

0.103

0.164

PARAMETRIC VALUES

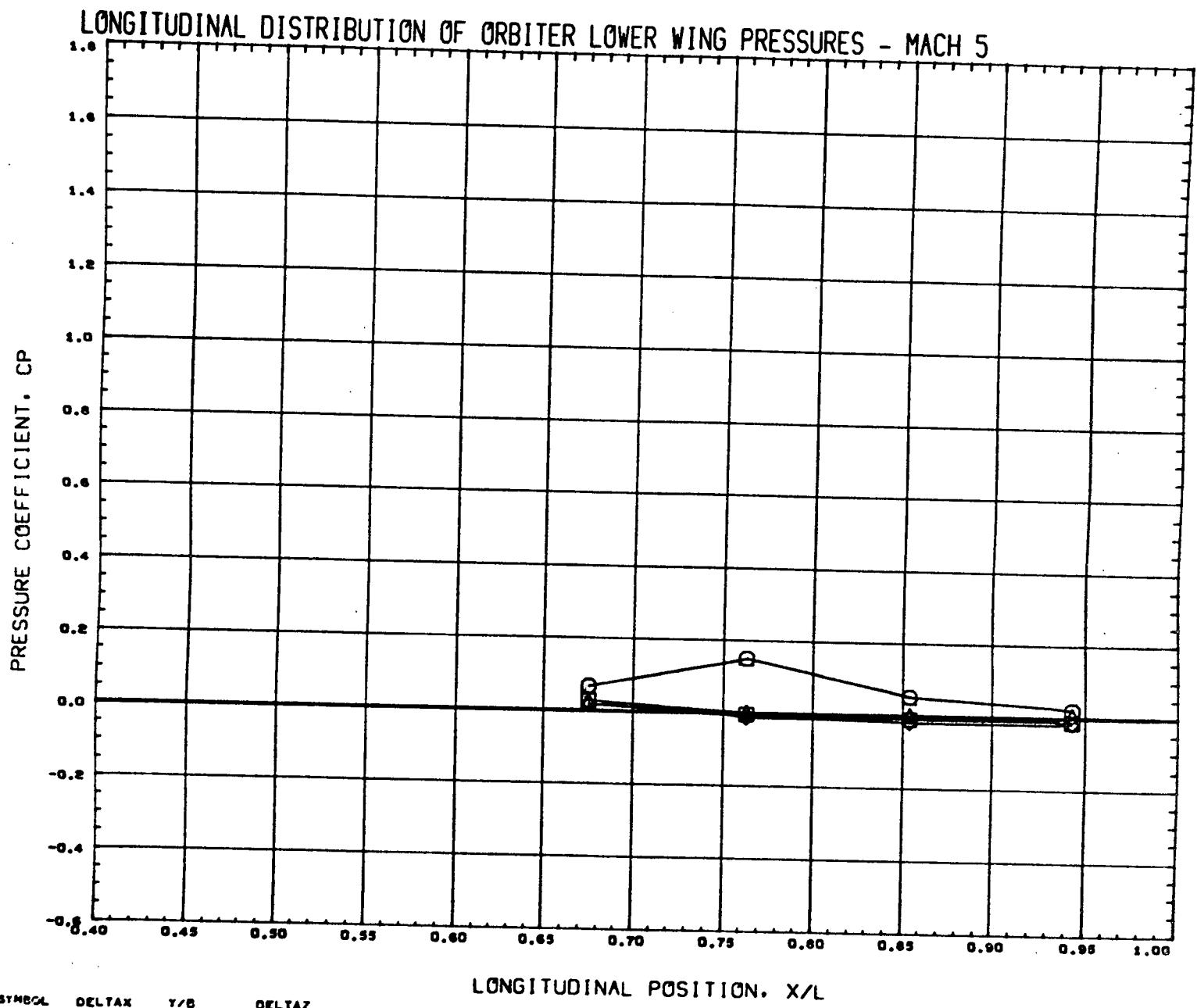
	ALPHAB	MACH
-	9.980	4.970
ALPHAI	0.000	ORBPOW
BSTPOW	100.000	0.000

REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8611•

PAGE 921



SYMBOL DELTAX T/B DELTAZ

- 0.179 0.399 0.106

○ 0.041

◇ 0.103

□ 0.164

PARAMETRIC VALUES

ALPHAB = 9.980 MACH = 4.970

ALPHAI = 0.000 ORBPOW = 0.000

BBTPW = 100.000

REFERENCE FILE

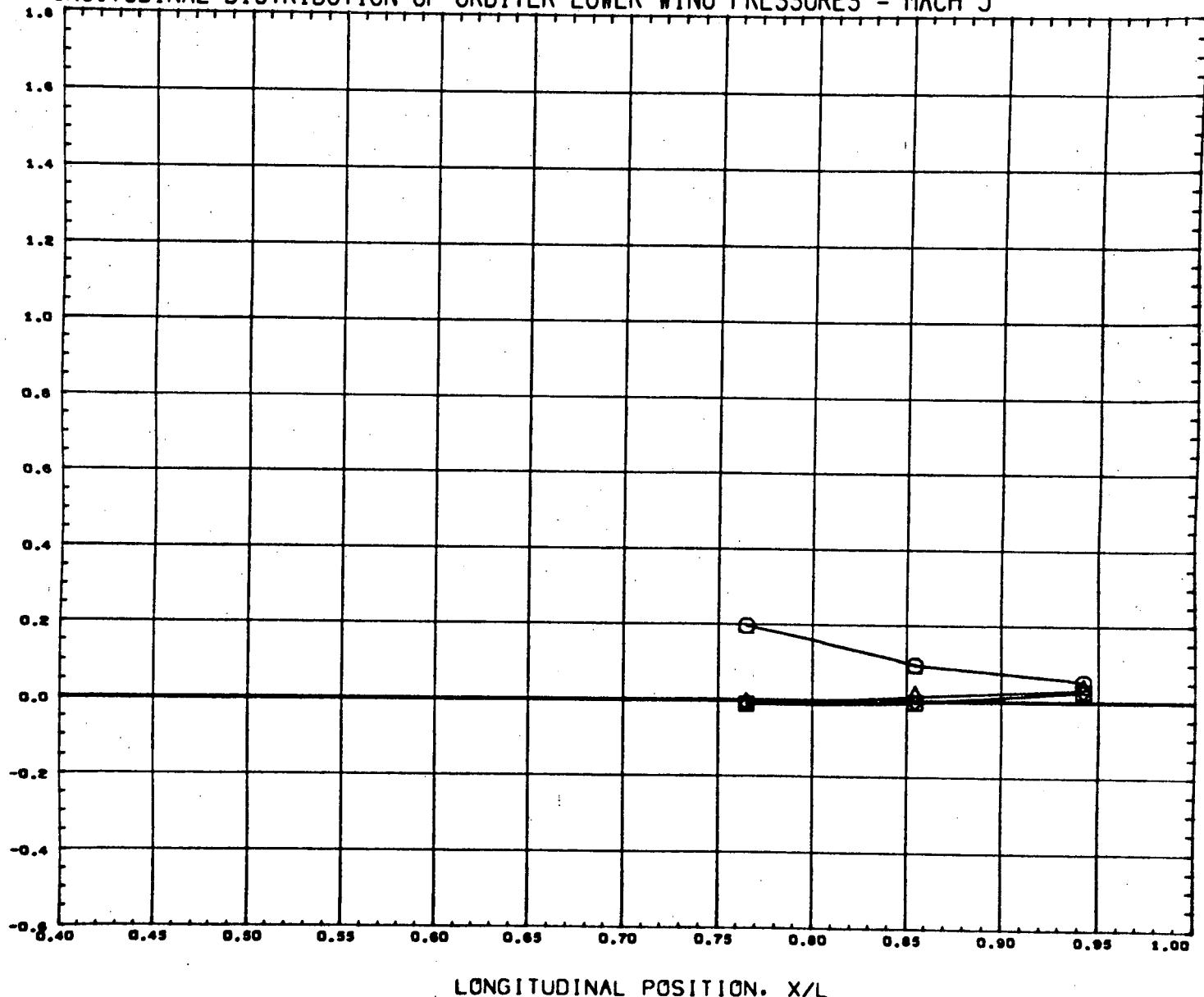
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8611•

PAGE 922

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



LONGITUDINAL POSITION. X/L

SYMBOL	DELTA X	T/B	DELTA Z
○	- 0.179	0.368	0.106
△	0.041		
◊	0.103		
□	0.164		

PARAMETRIC VALUES	
ALPHAB	- 9.980
ALPHAI	0.000
BSTPON	100.000
MACH	4.970
ORBPON	0.000

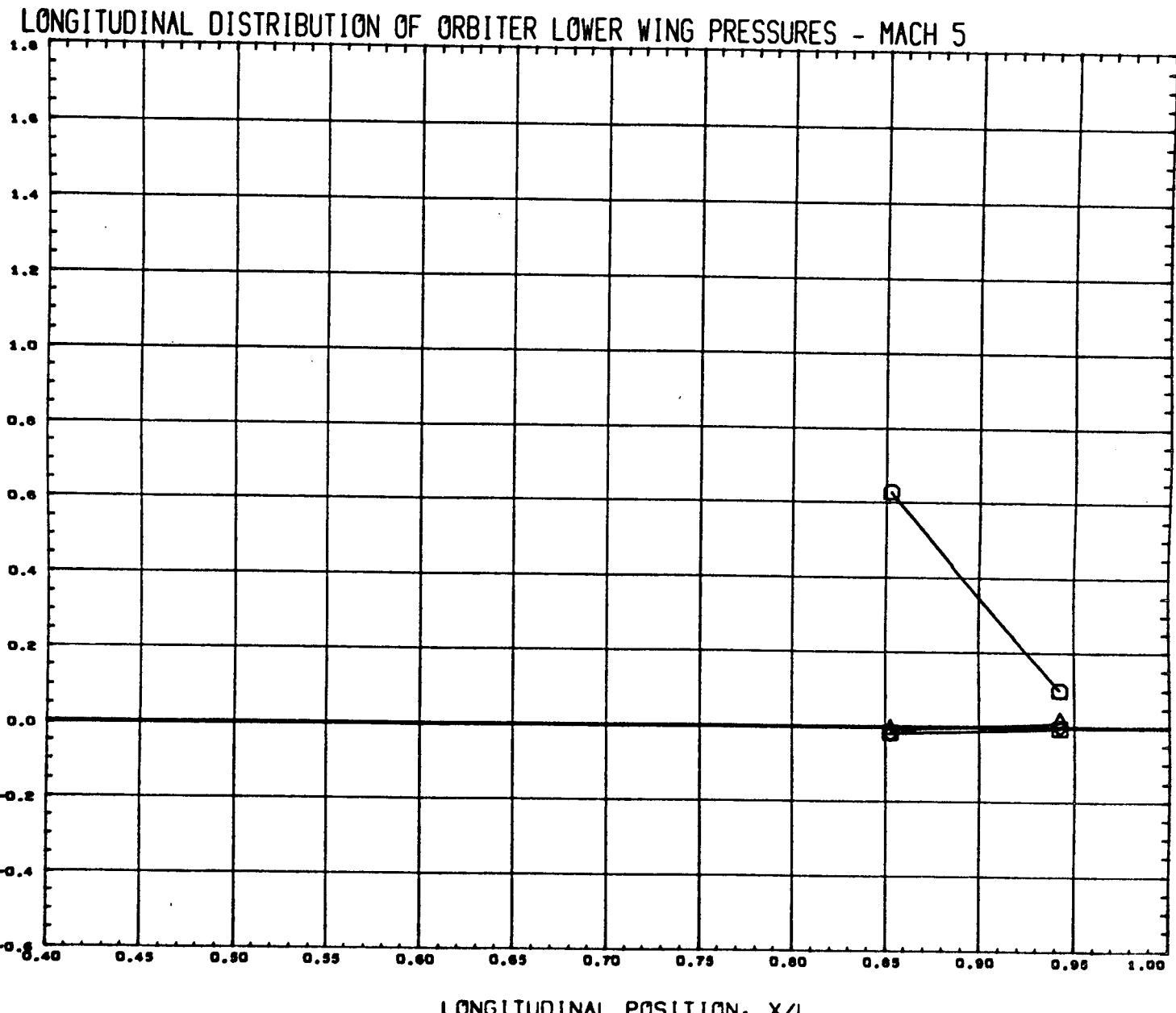
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8611•

PAGE 923

PRESSURE COEFFICIENT, CP



SYMBOL DELTAX T/B DELTAZ
- 0.179 0.739 0.106
◊ 0.041 0.103
△ 0.103 0.164
○ 0.164 0.106

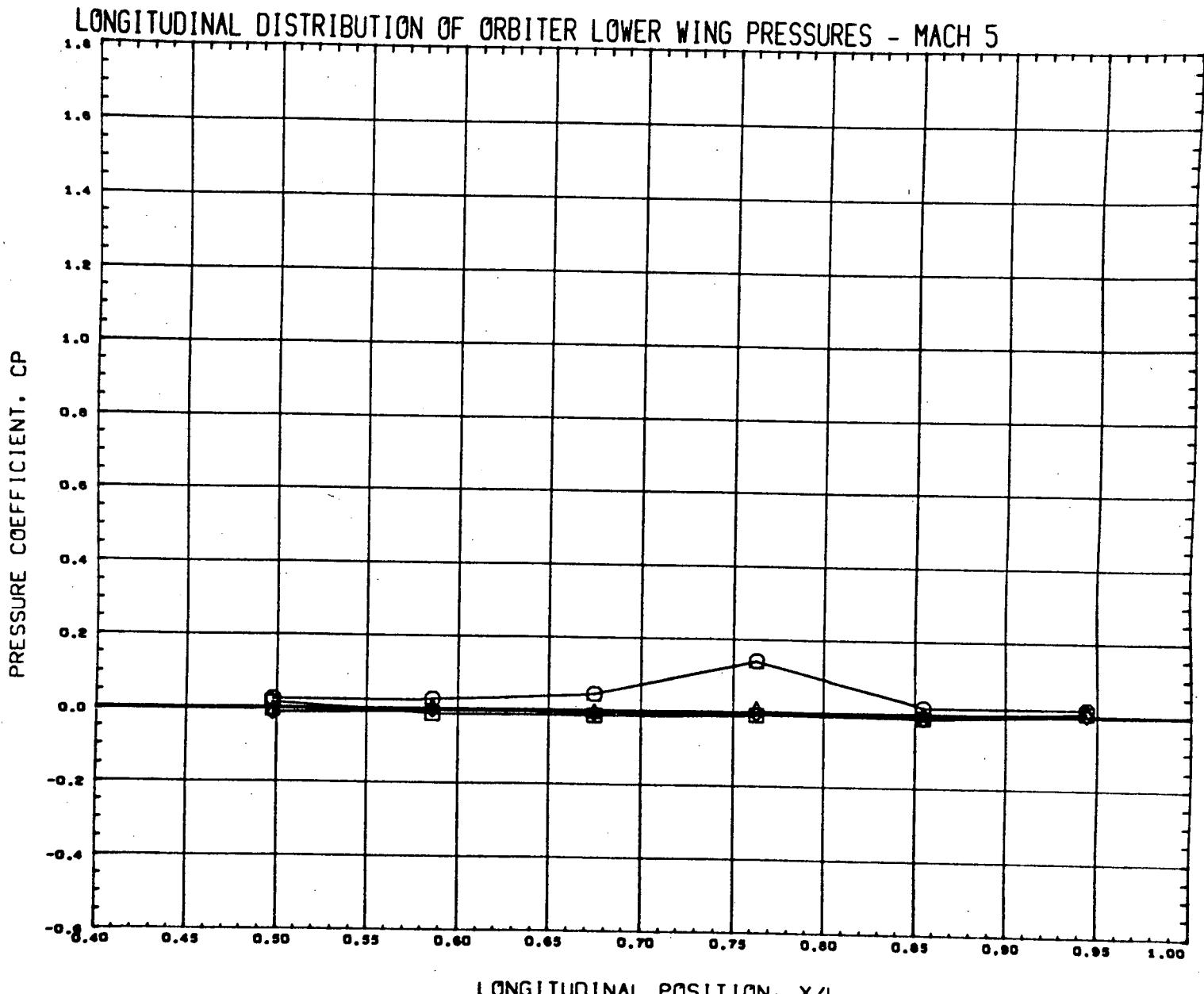
PARAMETRIC VALUES
ALPHAB = 9.980 MACH = 4.970
ALPHAI = 0.000 ORBPOW = 0.000
BSTPOW = 100.000

REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8611•

PAGE 924



PARAMETRIC VALUES		
ALPHAB	- 4.950	MACH 4.970
ALPHAI	0.000	ORBPOW 0.000
BSTPOW	100.000	

REFERENCE FILE

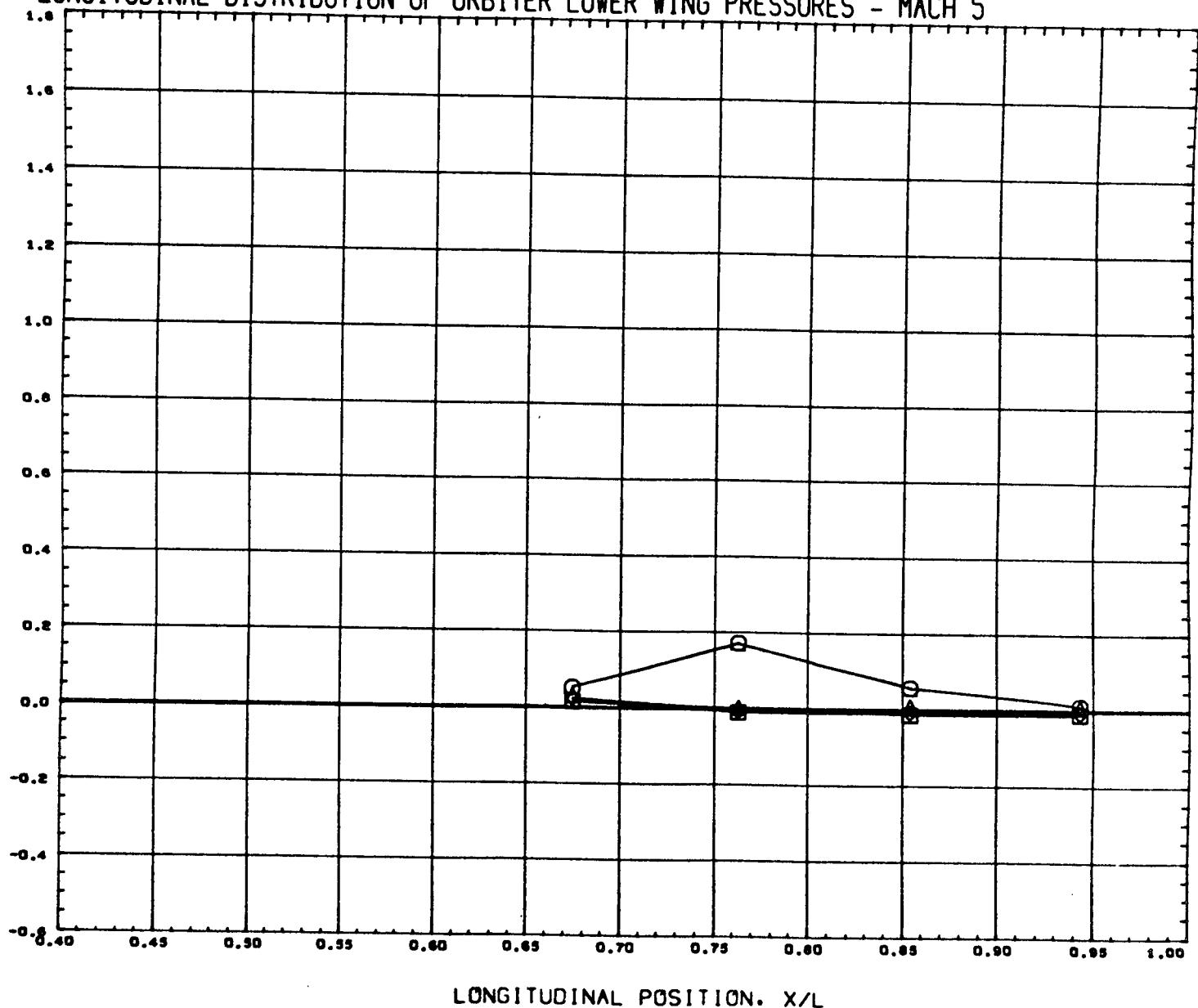
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8612•

PAGE 925

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION. X/L

SYMBOL DELTAX T/B DELTAZ
 - 0.179 0.399 0.106
 0.041
 0.103
 0.164

PARAMETRIC VALUES
 ALPHAB - 4.950 MACH 4.970
 ALPHAT 0.000 ORBPOW 0.000
 BSTPOW 100.000

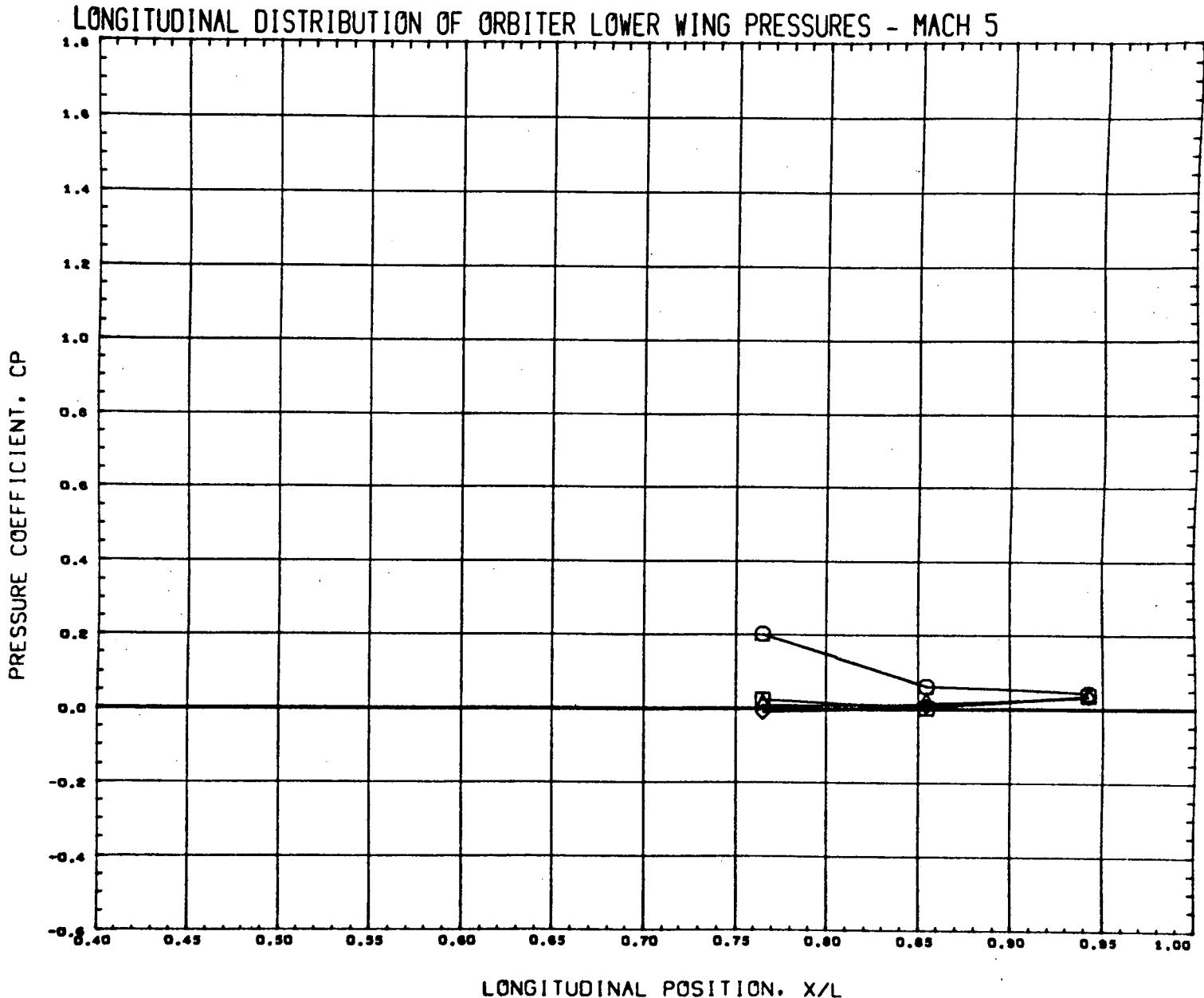
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8612•

PAGE 926

C.9



SYMBOL DELTAX T/8 DELTAZ
 - 0.179 0.368 0.106
 ○ 0.041
 △ 0.103
 □ 0.164

PARAMETRIC VALUES
 ALPHAB = 4.950 MACH = 4.970
 ALPHAI = 0.000 ORBPOW = 0.000
 BSTPOW = 100.000

REFERENCE FILE

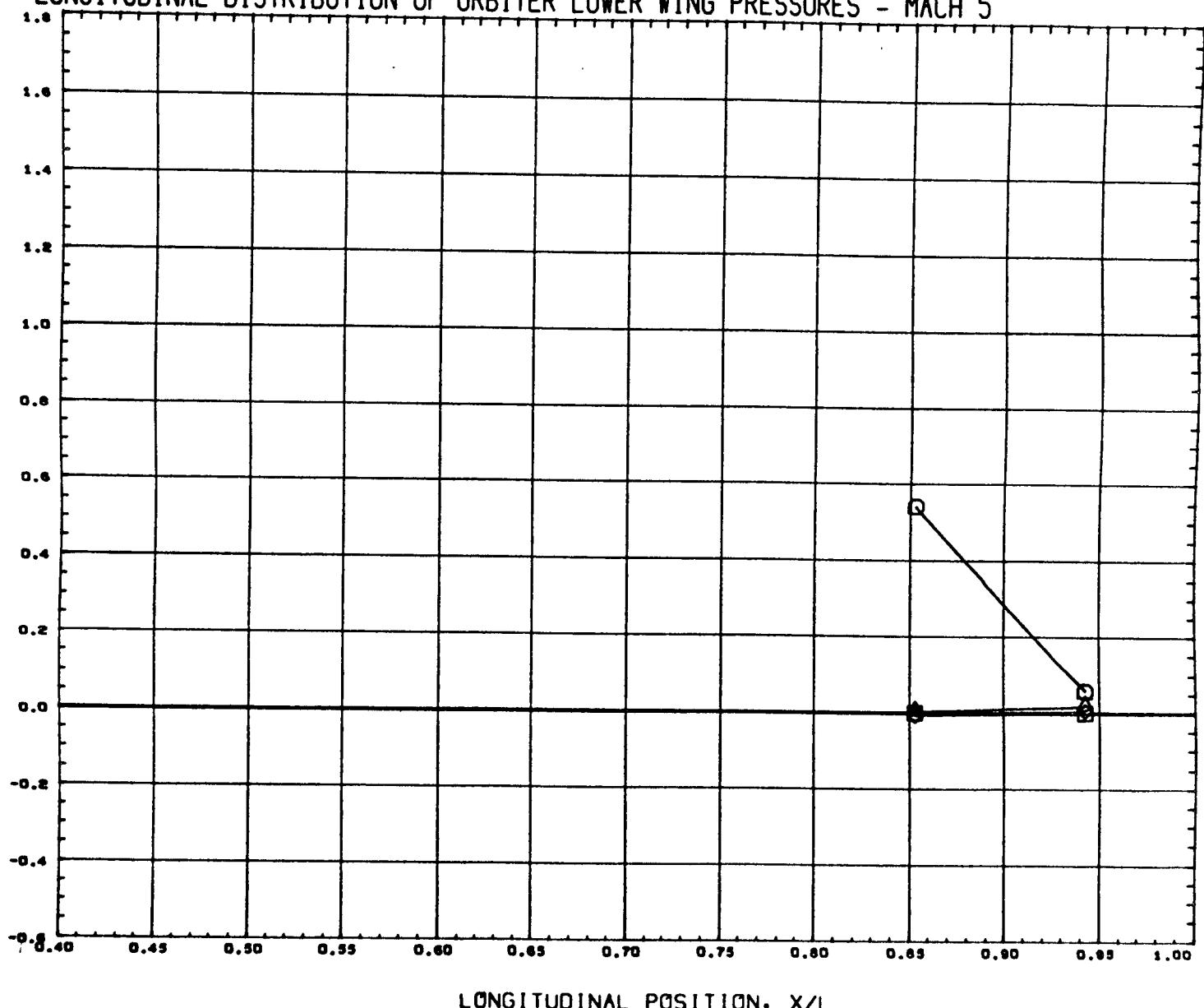
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8612•

PAGE 927

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



LONGITUDINAL POSITION. X/L

SYMBOL	DELTA X	T/B	DELTA Z
-	0.179	0.739	0.106
△	0.041		
◊	0.103		
□	0.164		

PARAMETRIC VALUES			
ALPHAB	- 4.950	MACH	4.970
ALPHAT	0.000	ORBPOW	0.000
BSTPOW	100.000		

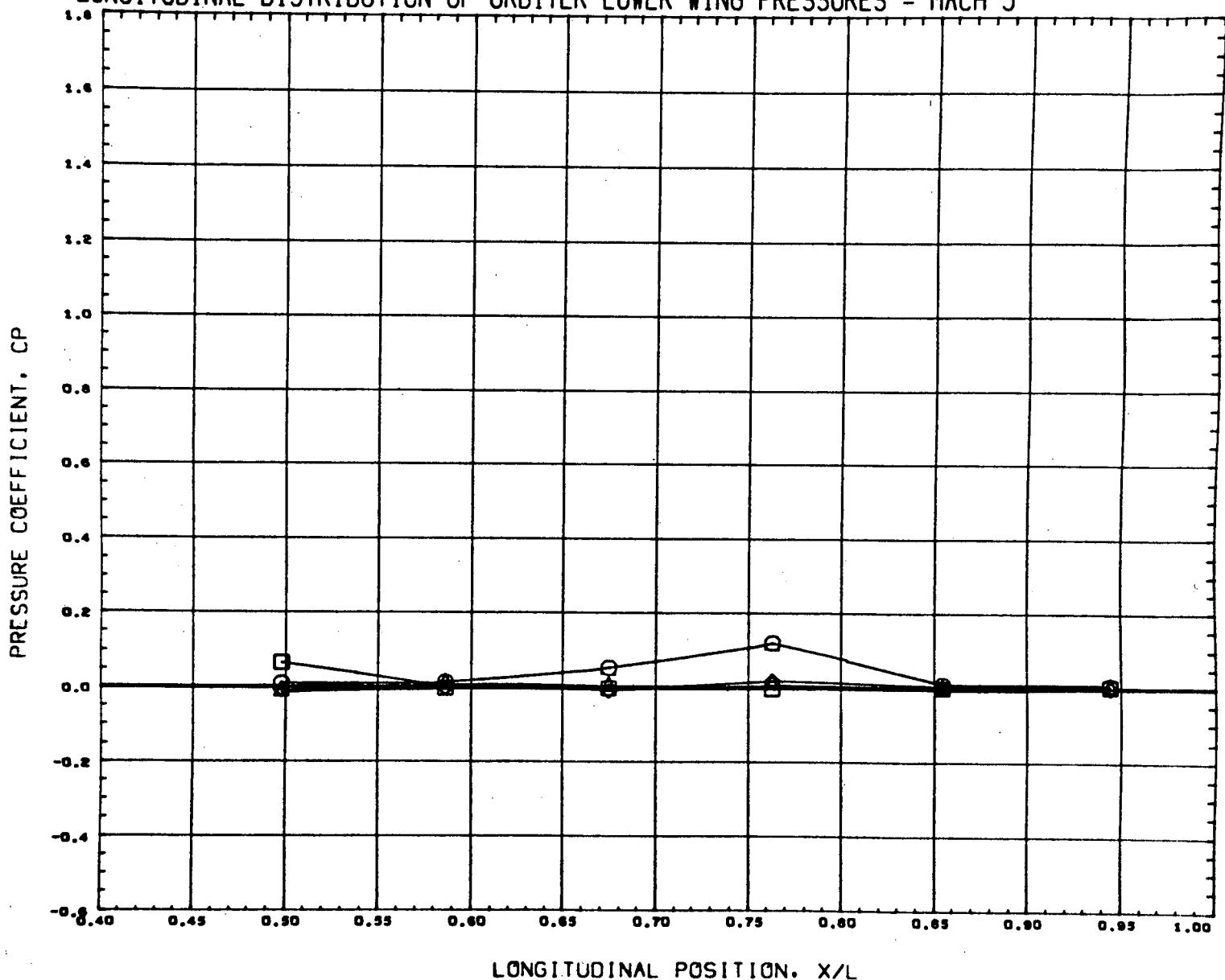
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8612•

PAGE 928

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL DELTAX T/B DELTAZ

- 0.179 0.230 0.106
- △ 0.041
- ◊ 0.103
- 0.164

PARAMETRIC VALUES

ALPHAB	0.000	MACH	4.970
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	100,000		

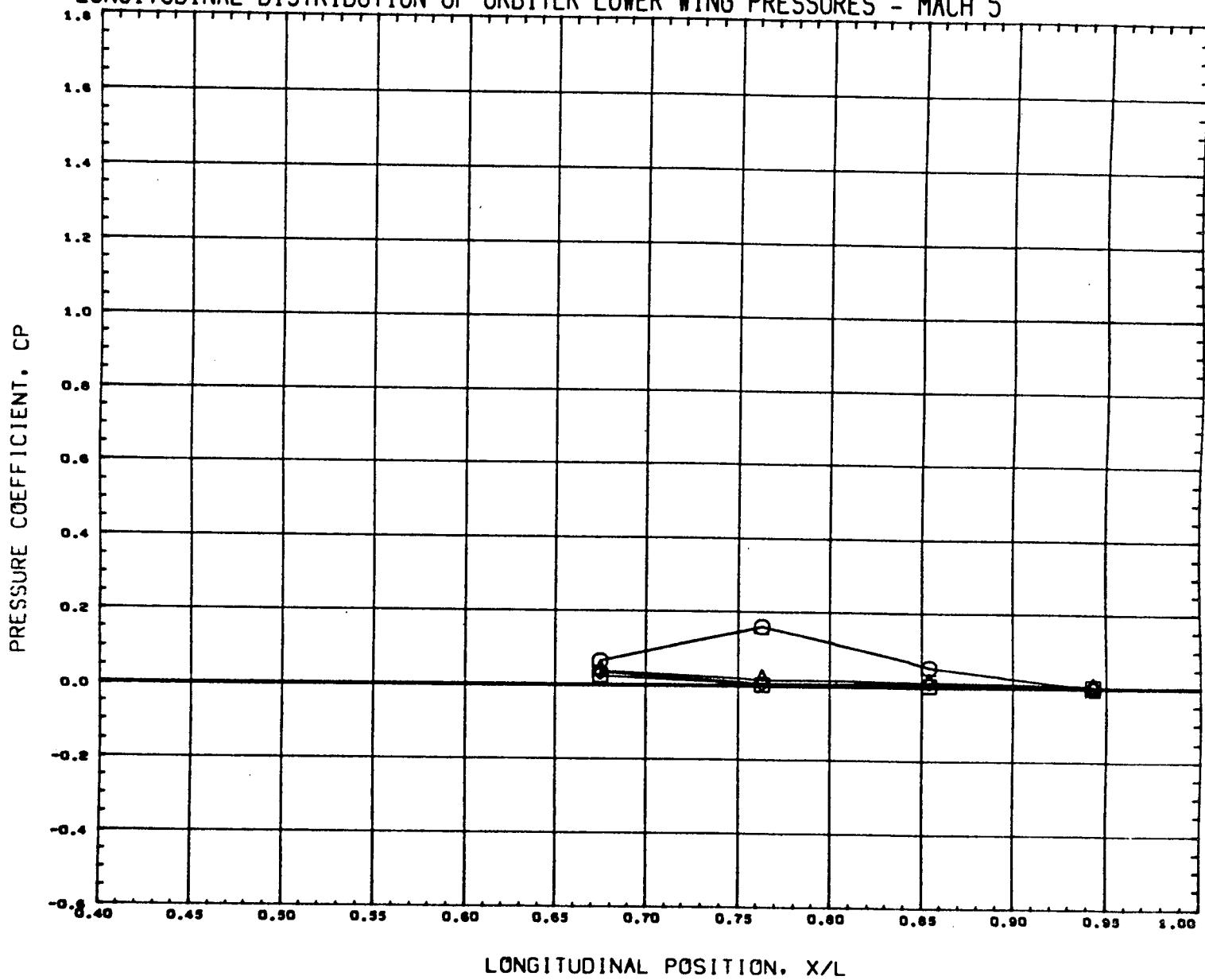
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8613•

PAGE 929

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	T/B	DELTA Z
-	0.179	0.399	0.106
△	0.041		
◊	0.103		
□	0.164		

PARAMETRIC VALUES		
ALPHAB	0.000	MACH
ALPHAT	0.000	ORBPOW
BSTPOW	100.000	4.970

REFERENCE FILE

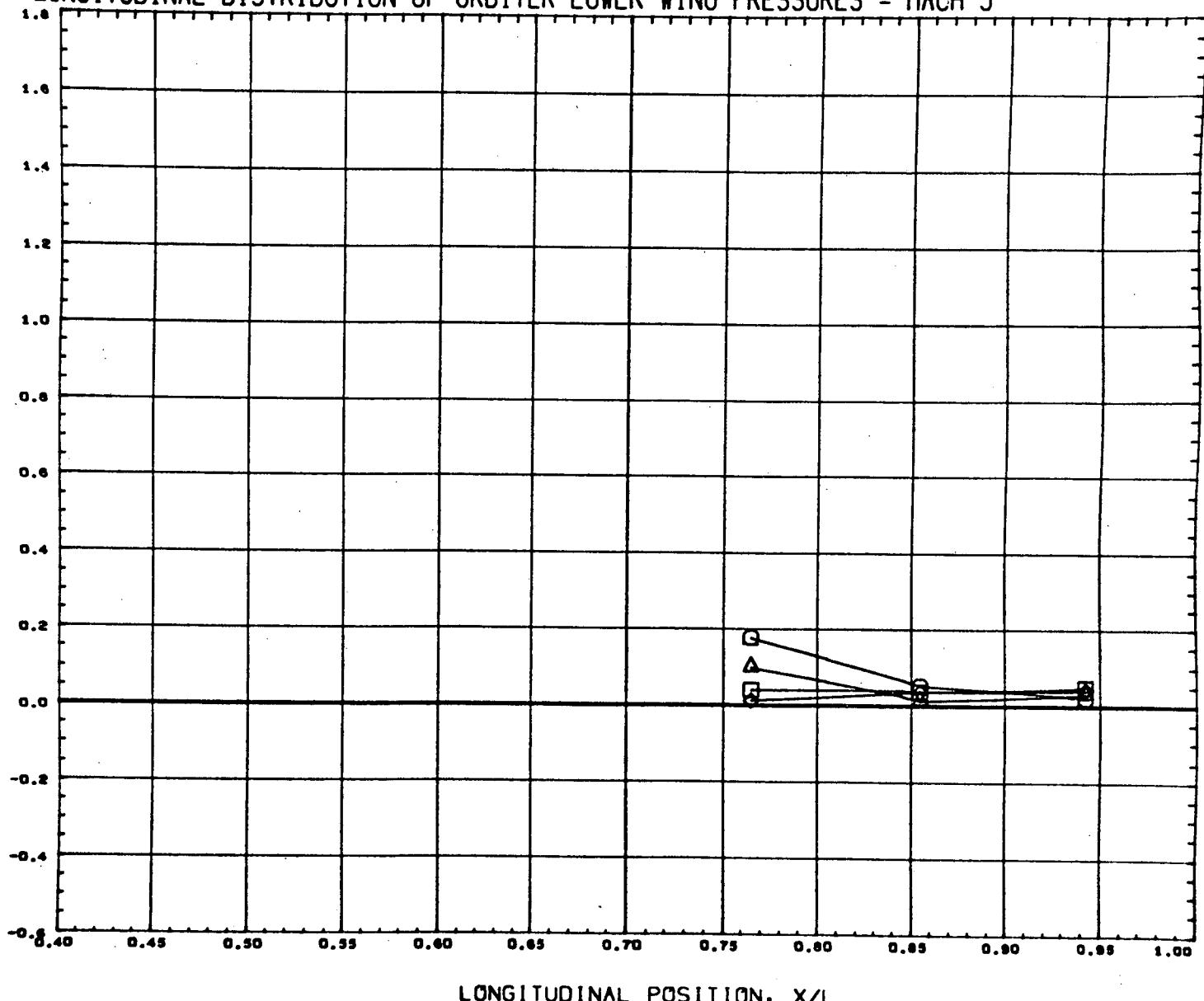
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8613•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



LONGITUDINAL POSITION. X/L

SYMBOL	DELTA X	T/B	DELTA Z
-	0.179	0.566	0.106
0.041			
0.103			
0.164			

PARAMETRIC VALUES			
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ALPHAI	0.000	ORBFOW	0.000
BSTPOW	100.000		

REFERENCE FILE

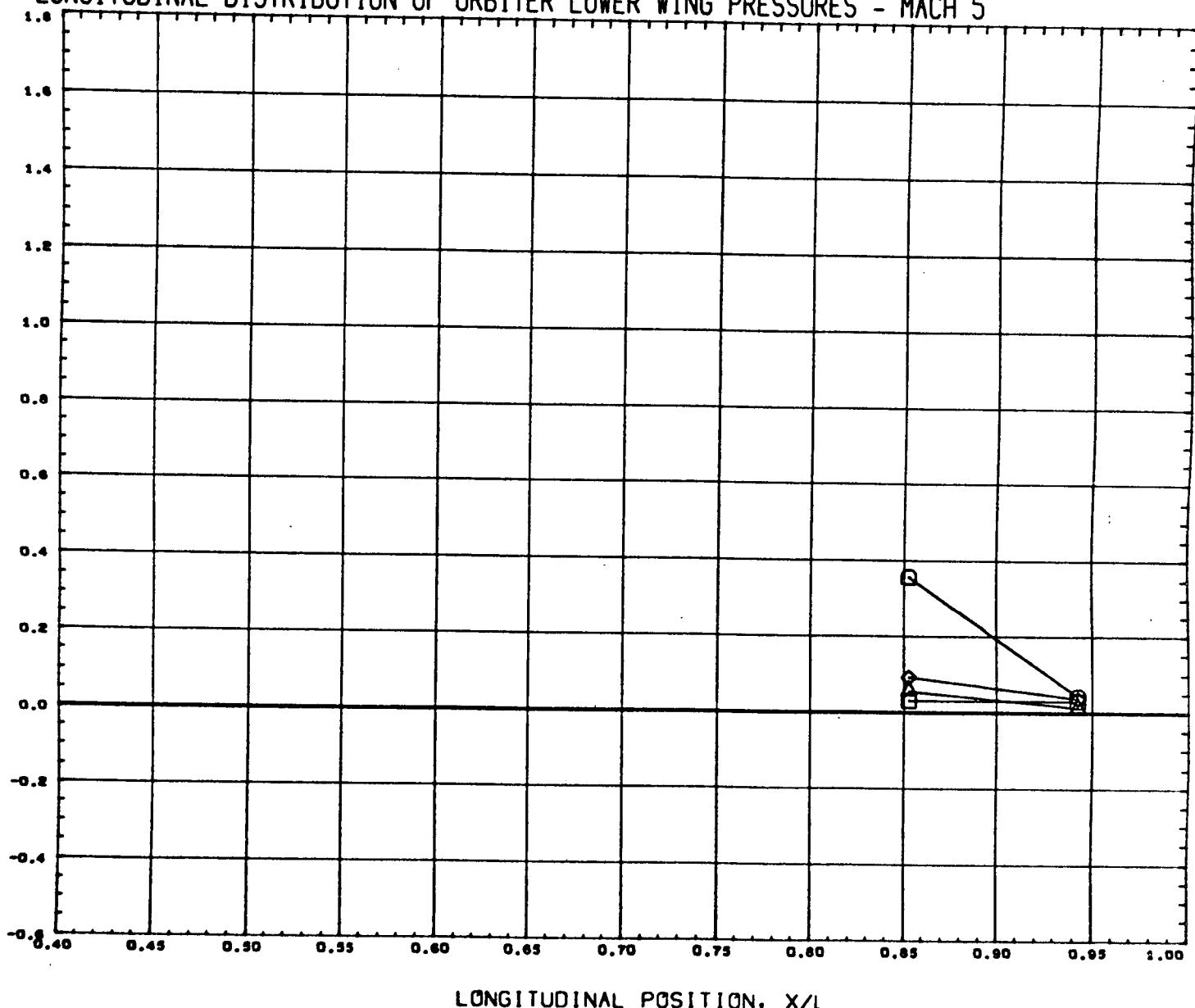
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8613•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL	DELTA X	Y/B	DELTA Z
-	0.179	0.739	0.106
△	0.041		
◊	0.103		
□	0.164		

PARAMETRIC VALUES			
ALPHAB	0.000	MACH	4.970
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	100.000		

REFERENCE FILE

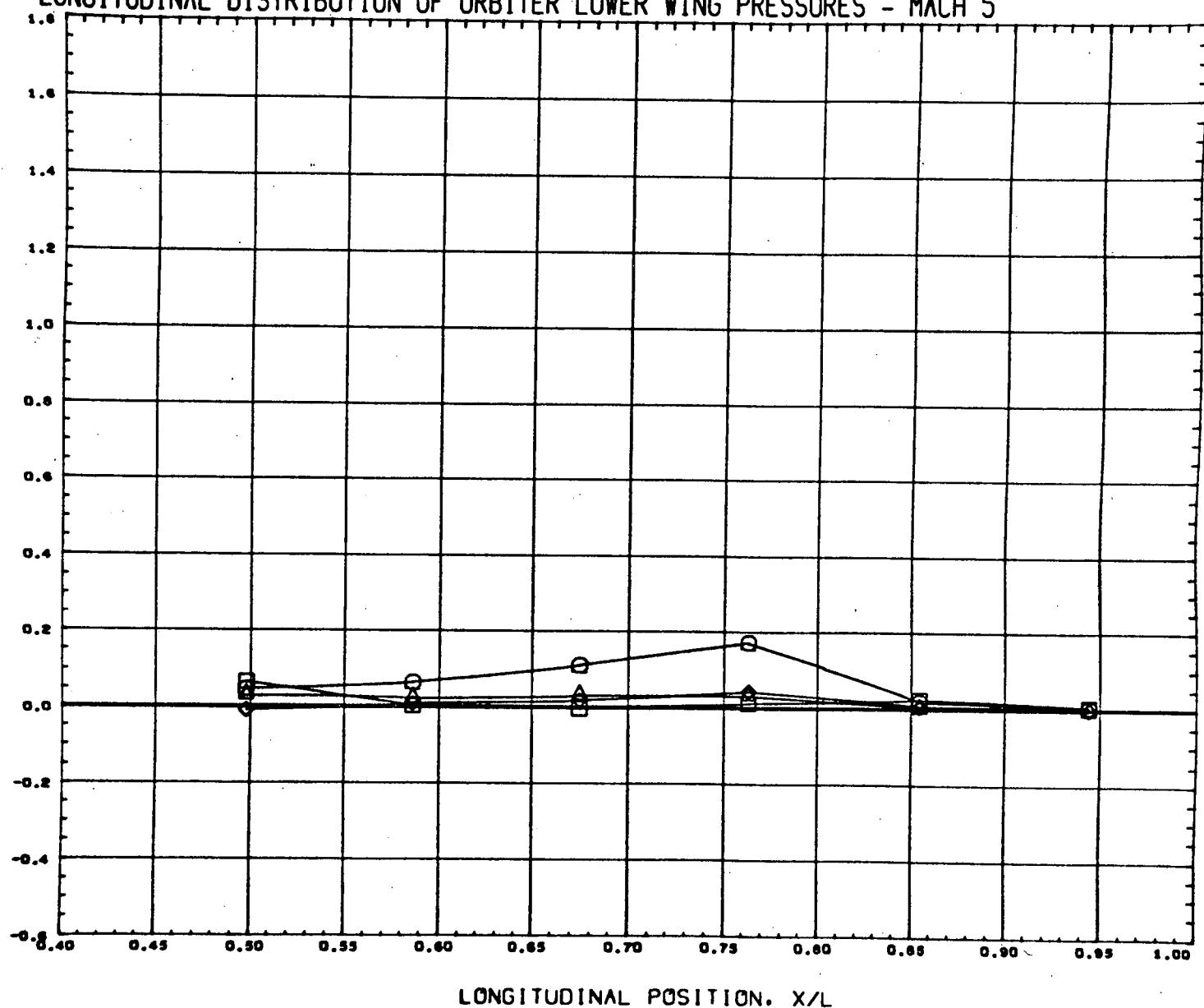
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8613•

PAGE 932

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION. X/L

SYMBOL	DELTA X	T/B	DELTA Z
-	0.179	0.230	0.106
○	0.041		
△	0.103		
◊	0.164		

PARAMETRIC VALUES			
ALPHAB	5.037	MACH	4.970
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	100.000		

REFERENCE FILE

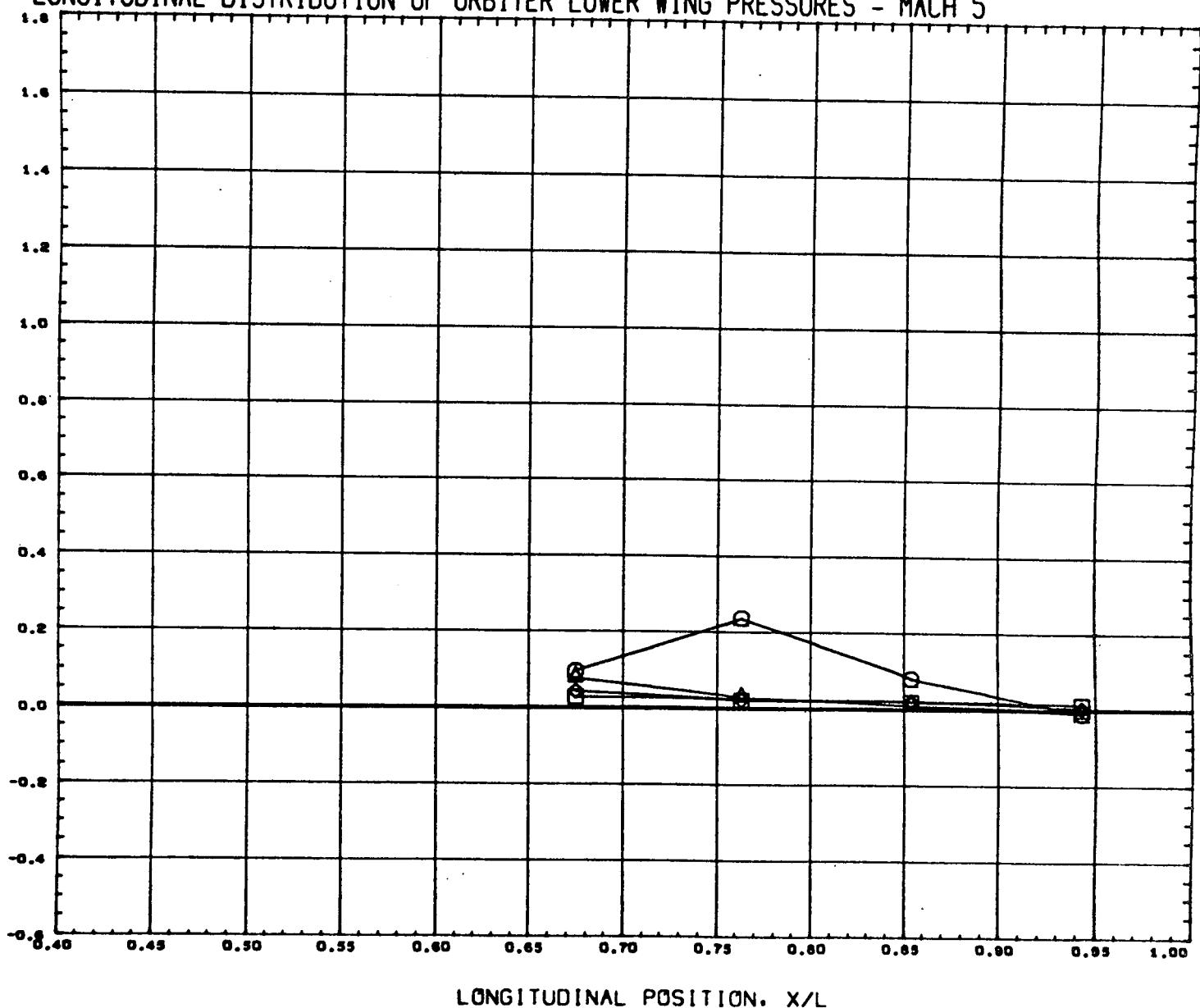
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8614•

PAGE 933

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



LONGITUDINAL POSITION. X/L

SYMBOL	DELTA X	Y/B	DELTA Z
\square	-0.179	0.399	0.106
Δ	0.041		
\diamond	0.103		
\triangle	0.164		

PARAMETRIC VALUES		
ALPHAB	5.037	MACH
ALPHAI	0.000	ORBPOW
BSTPOW	100.000	

REFERENCE FILE

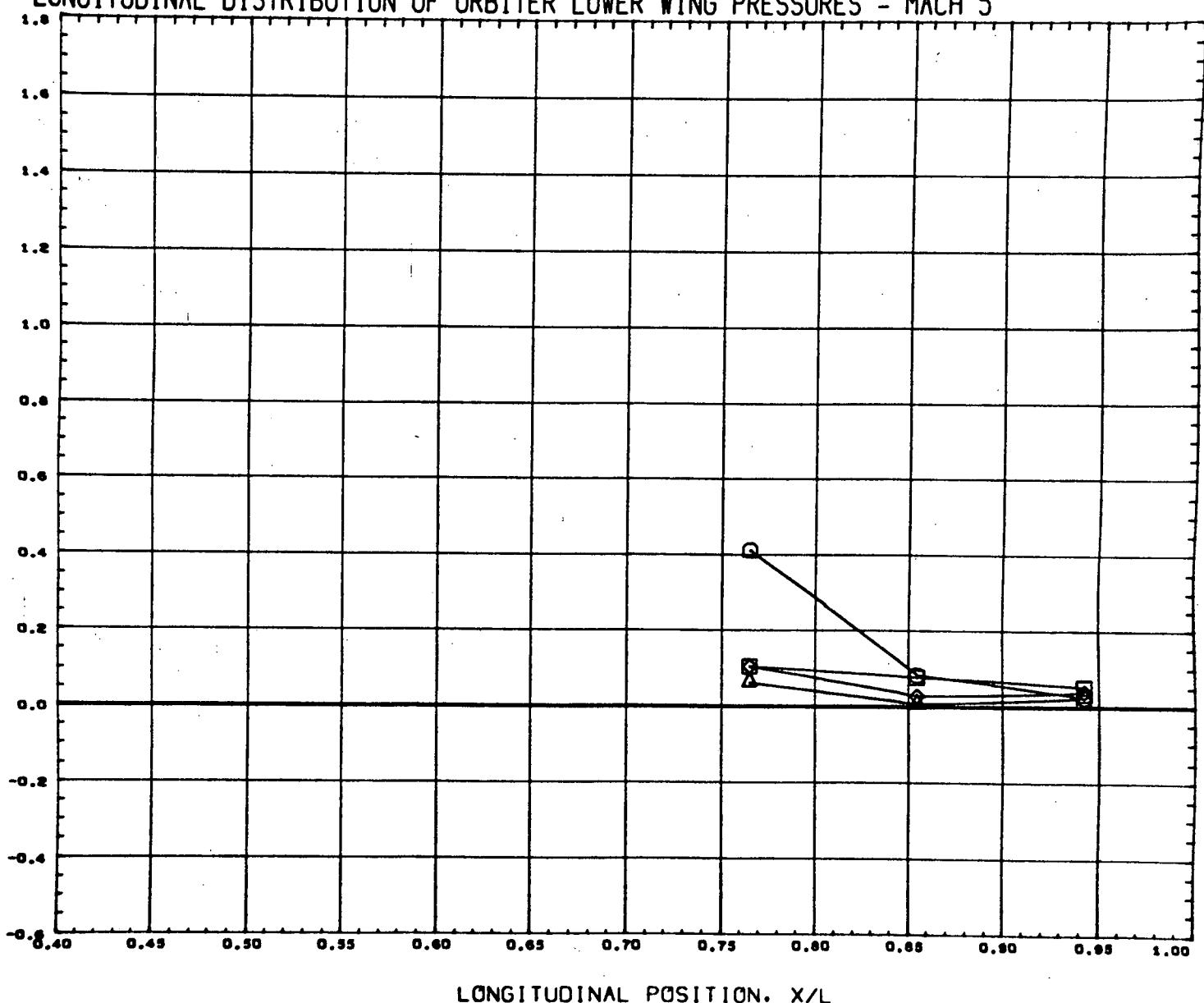
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8614•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



SYMBOL	DELTA X	Y/B	DELTA Z
-	0.179	0.566	0.106
○	0.041		
◊	0.103		
□	0.164		

PARAMETRIC VALUES			
ALPHAB	3.037	MACH	4.970
ALPHAI	0.000	ORBPW	0.000
BSTPOW	100.000		

REFERENCE FILE

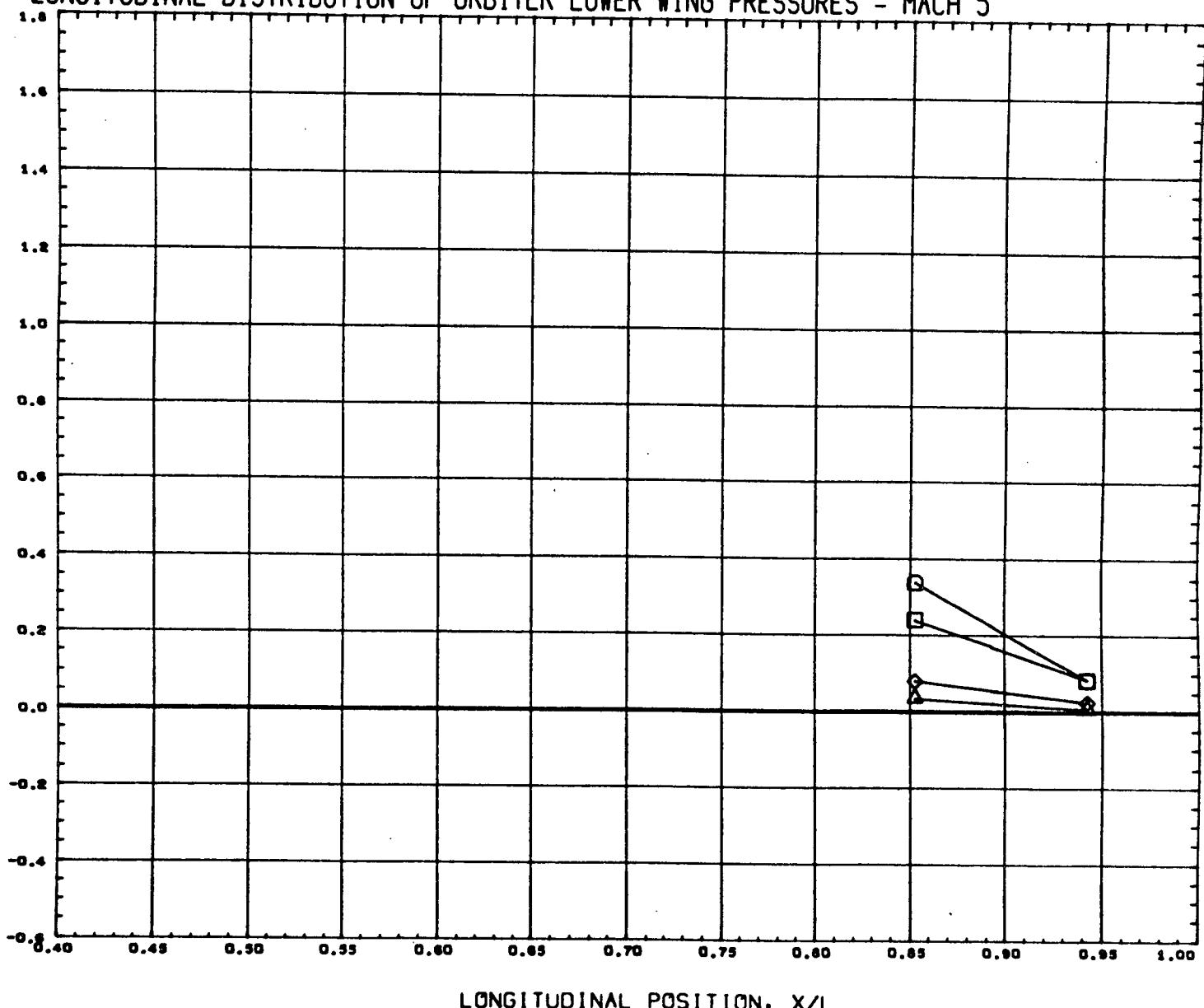
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8614•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	T/B	DELTA Z
○	- 0.179	0.736	0.106
△	0.041		
◊	0.103		
□	0.164		

PARAMETRIC VALUES		
ALPHAB	9.037	MACH
ALPHAI	0.000	ORBPOW
BSTPOW	100.000	

REFERENCE FILE

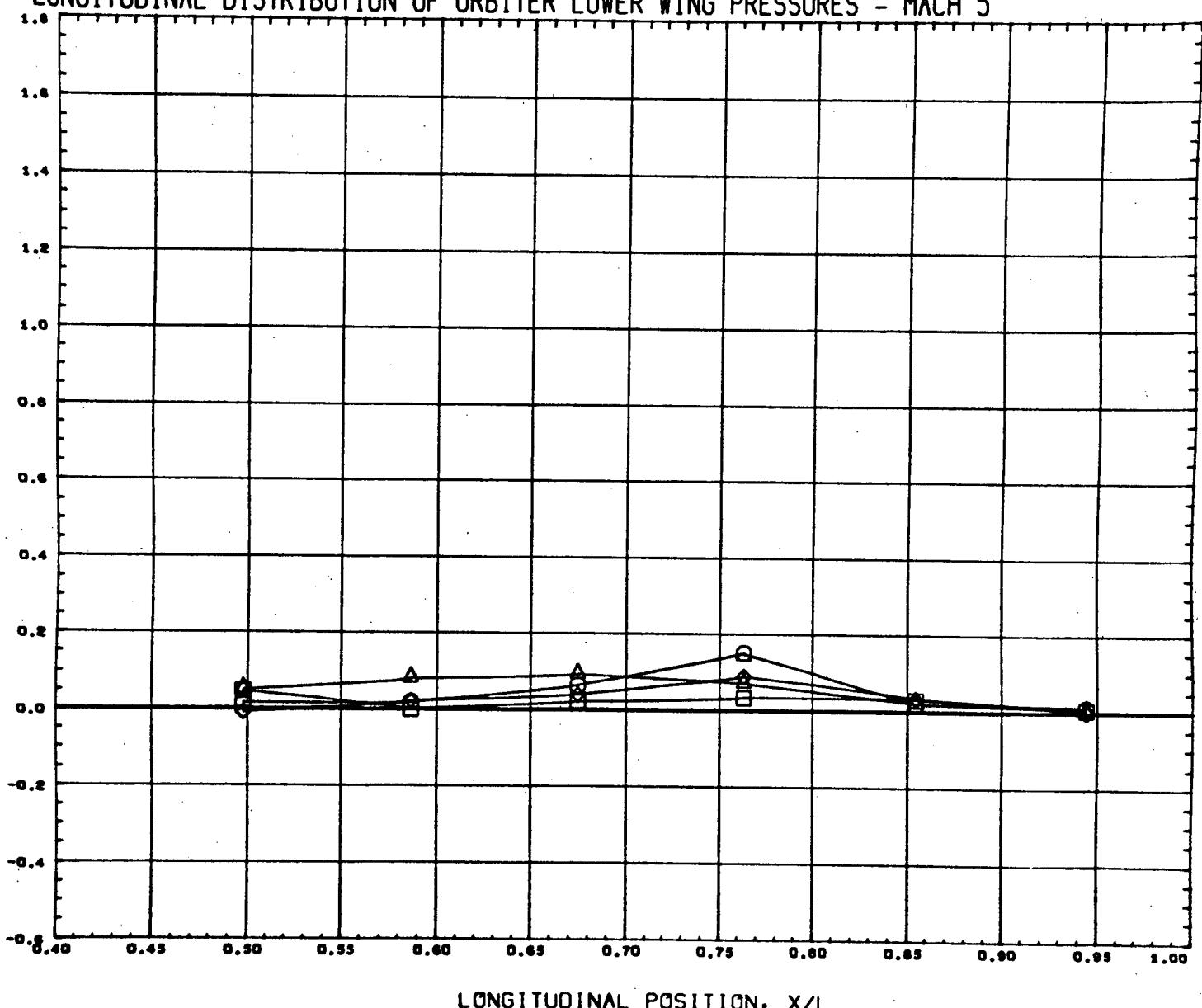
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8614•

PAGE 936

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
-	0.179	0.230	0.106
△	0.041		
◊	0.103		
□	0.164		

PARAMETRIC VALUES			
ALPHAB	9.995	MACH	4.970
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	100.000		

REFERENCE FILE

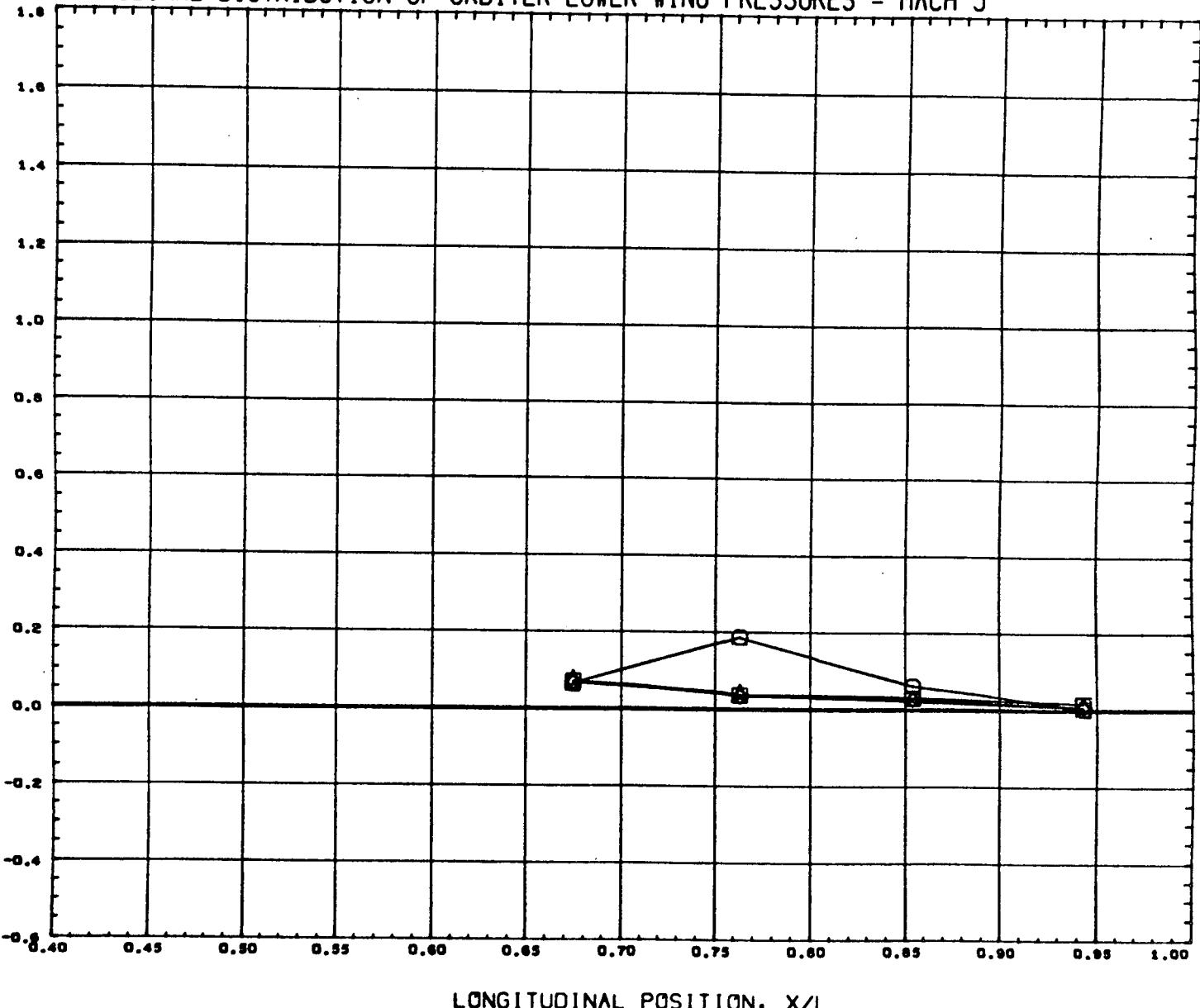
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8615•

PAGE 937

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



LONGITUDINAL POSITION. X/L

SYMBOL	DELTA X	T/8	DELTA Z
-	0.179	0.399	0.106
◊	0.041		
□	0.103		
	0.164		

PARAMETRIC VALUES			
ALPHAB	9.995	MACH	4.970
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	100.000		

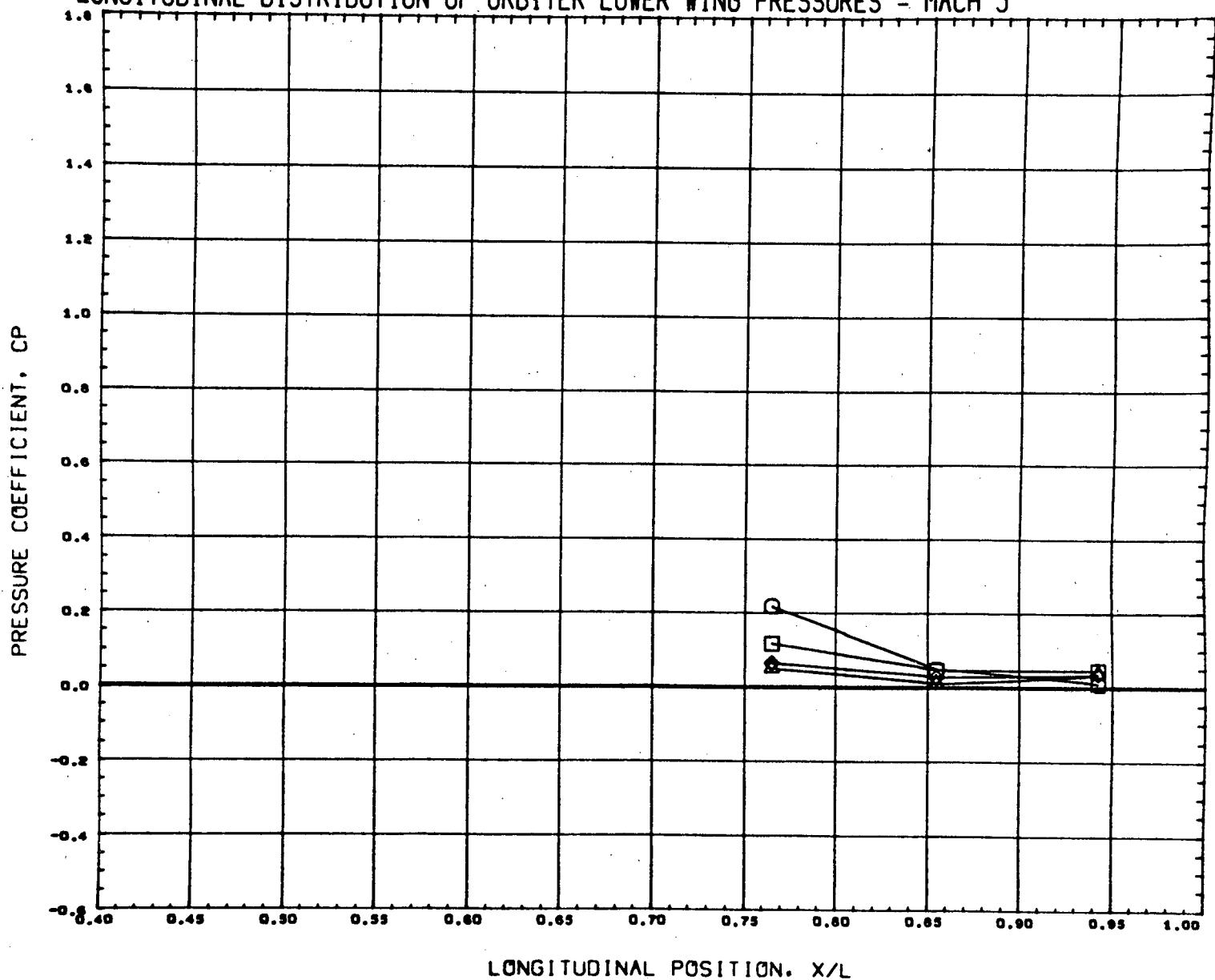
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AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8615•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



PARAMETRIC VALUES			
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ALPHAI	0.000	ORBPOW	0.000
BSTPOW	100.000		

REFERENCE FILE

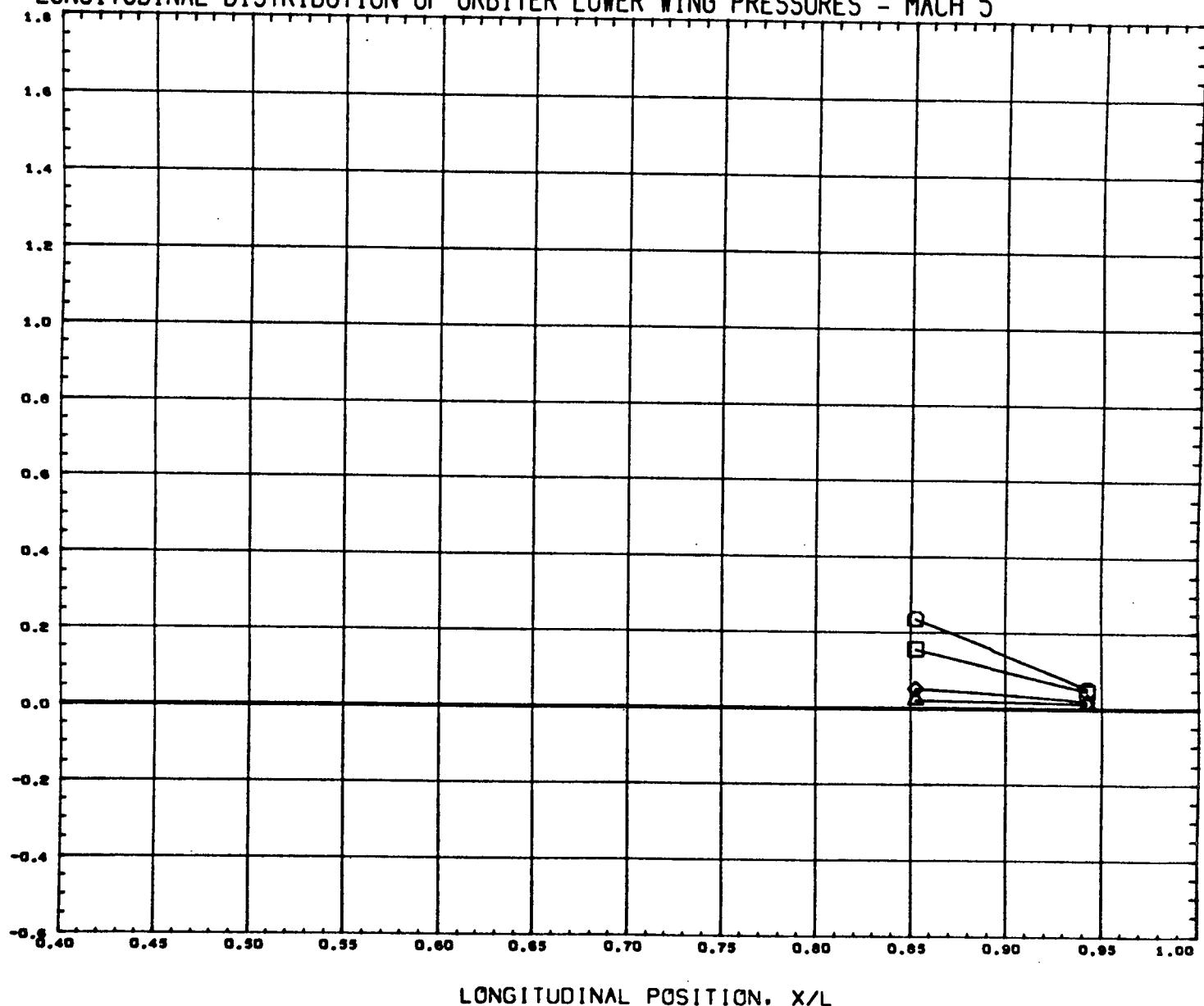
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8615•

PAGE 939

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION, X/L

SYMBOL	DELTAX	T/B	DELTAZ
-	0.179	0.736	0.106
△	0.041		
◊	0.103		
□	0.164		

PARAMETRIC VALUES			
ALPHAB	9.995	MACH	4.970
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	100.000		

REFERENCE FILE

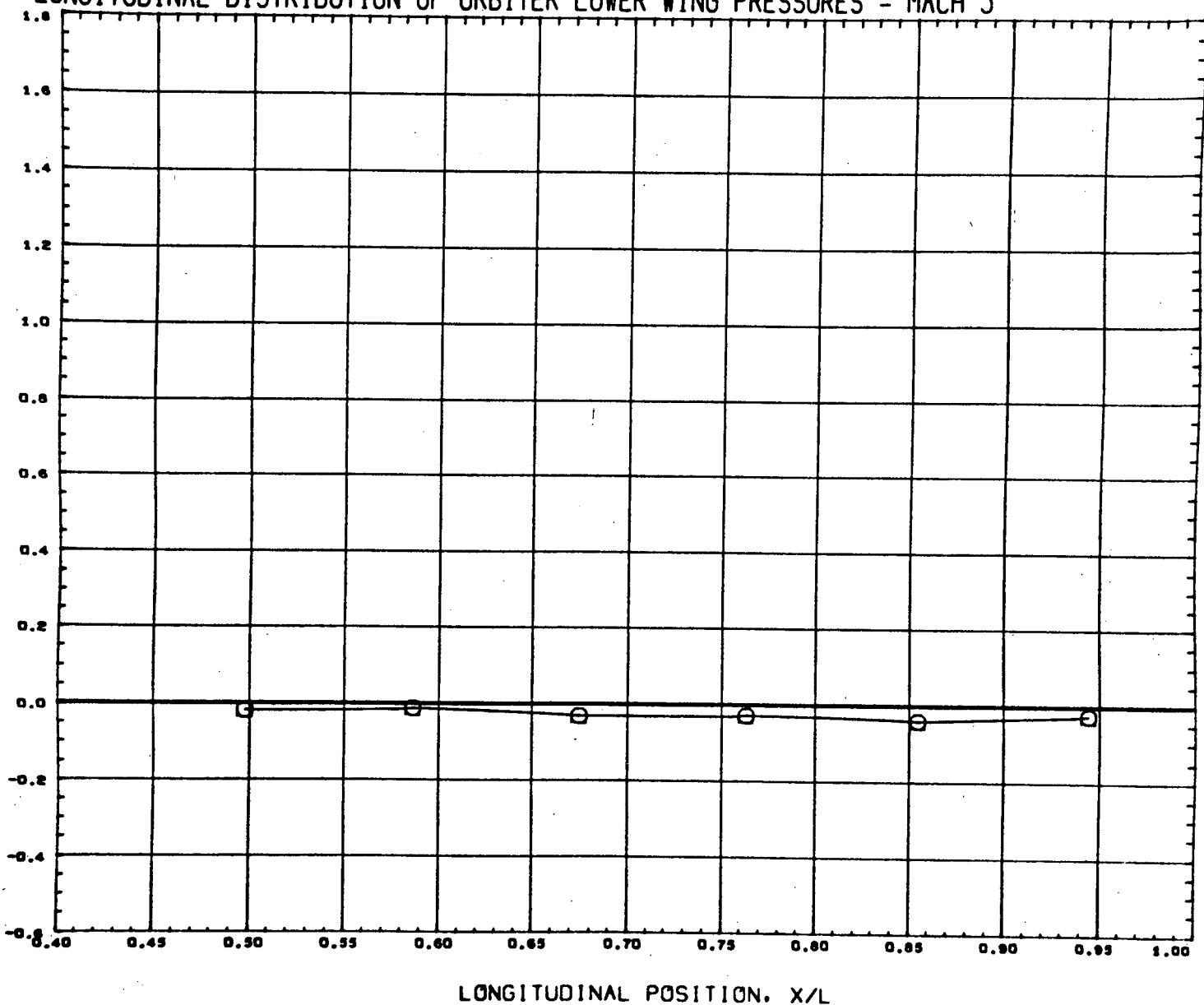
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8615•

PAGE 940

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION, X/L

SYMBOL DELTAX T/B DELTAZ
○ 0.103 0.239 0.106

PARAMETRIC VALUES	
ALPHAB	- 4.906
ALPHAI	0.000
BSTPOW	0.000
MACH	4.970
ORBPOW	0.000

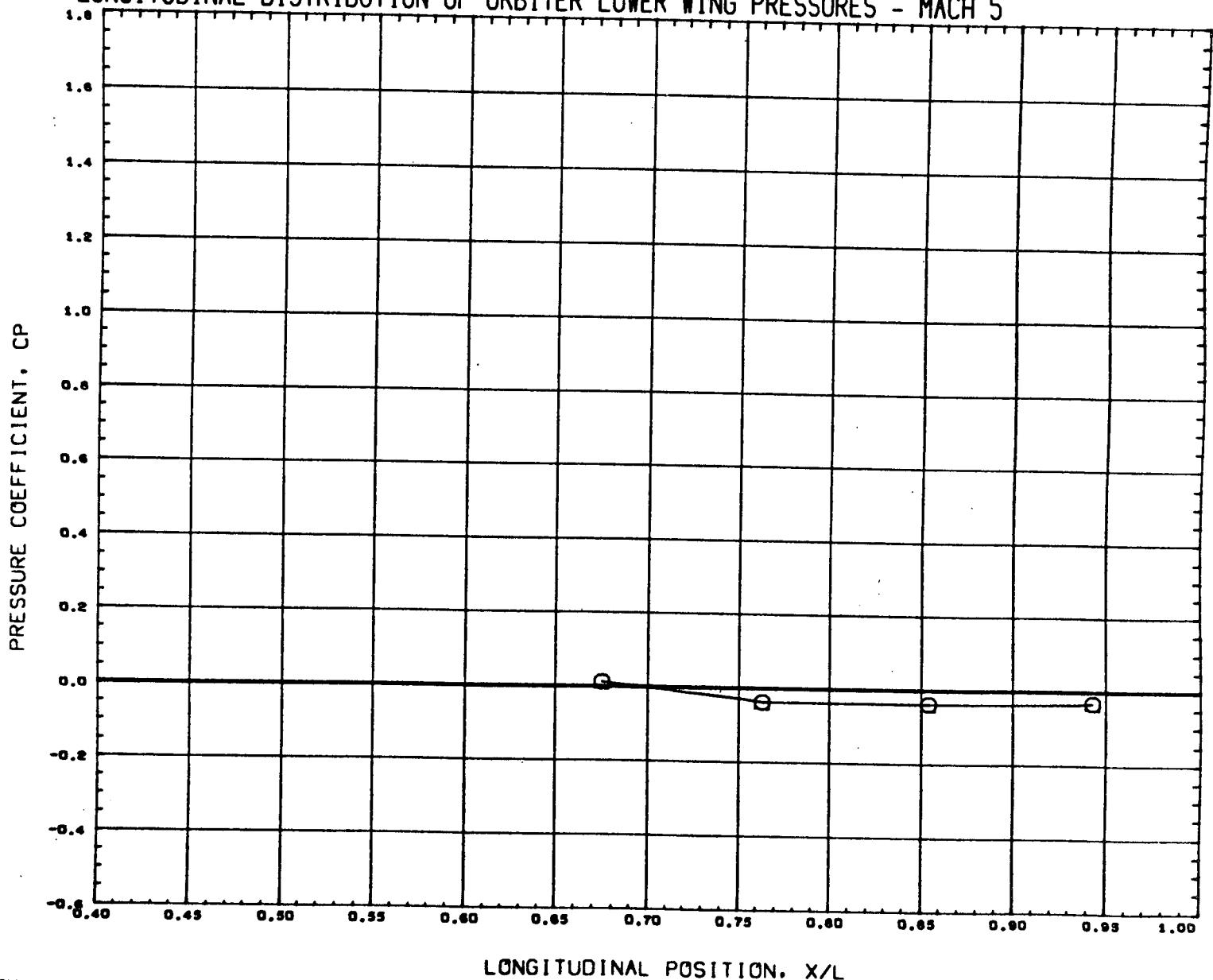
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AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8622•

PAGE 941

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL DELTAX Y/B DELTAZ
C 0.103 0.399 0.106

PARAMETRIC VALUES	
ALPHAB	4.906
ALPHAI	0.000
BSTPOW	0.000
MACH	4.970
ORBPOW	0.000

REFERENCE FILE

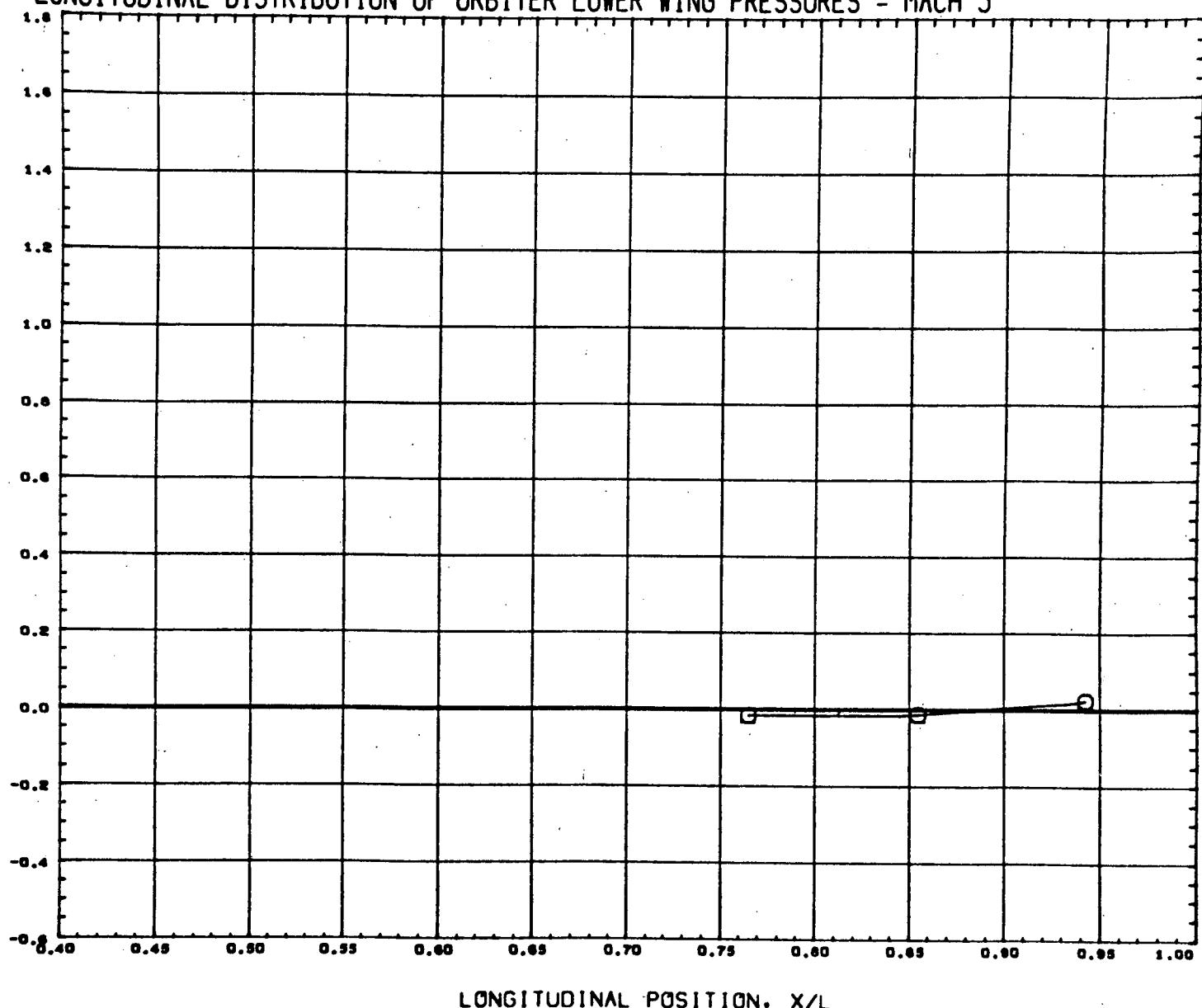
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8622•

PAGE 942

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION. X/L

SYMBOL	DELTA X	Y/B	DELTA Z
C	0.103	0.968	0.106

PARAMETRIC VALUES		
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ALPHAT	0.000	ORBPOW 0.000
BSTPOW	0.000	

REFERENCE FILE

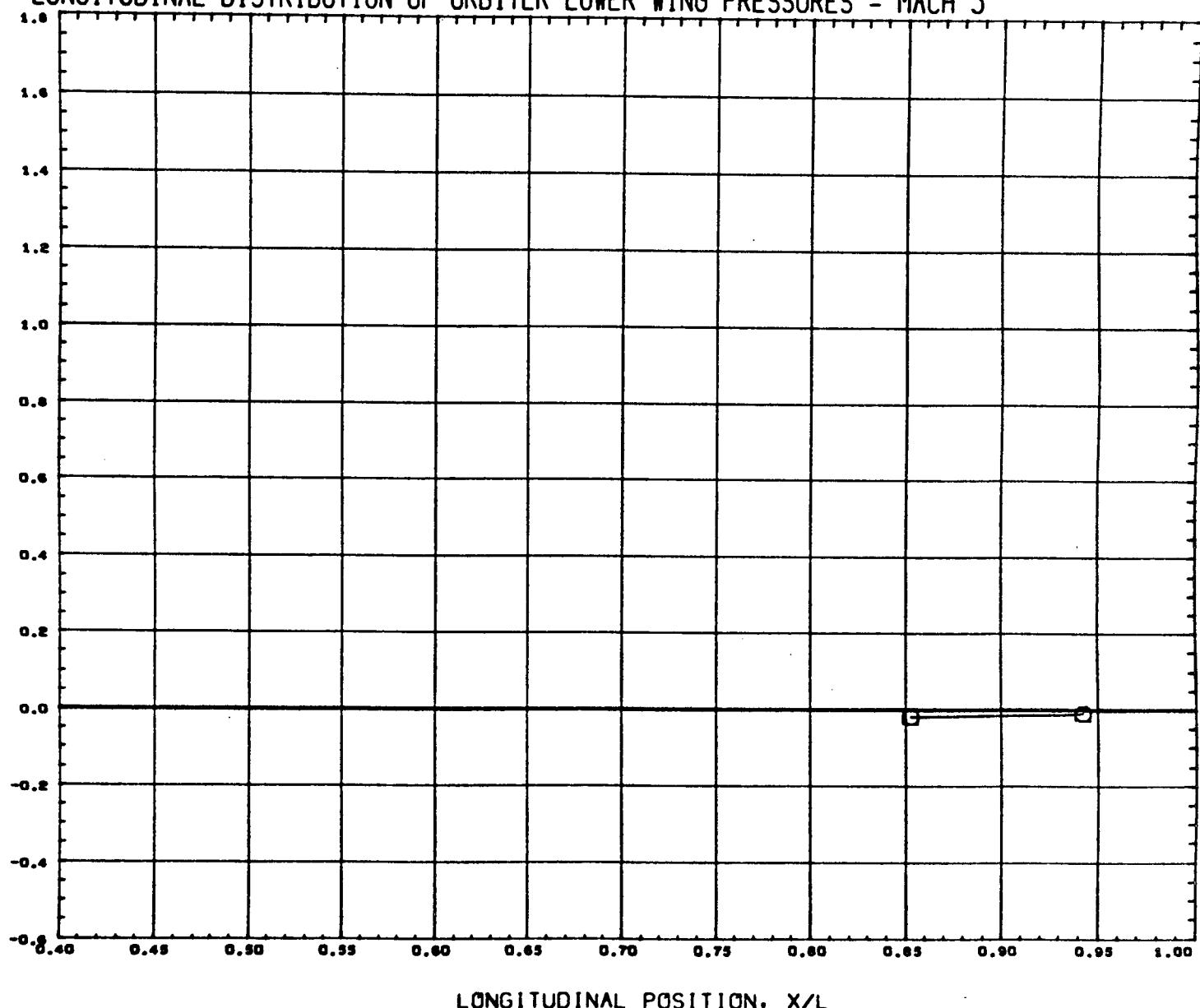
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8622•

PAGE 943

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION, X/L

SYMBOL DELTAX Y/B DELTAZ

○ 0.103 0.736 0.106

PARAMETRIC VALUES

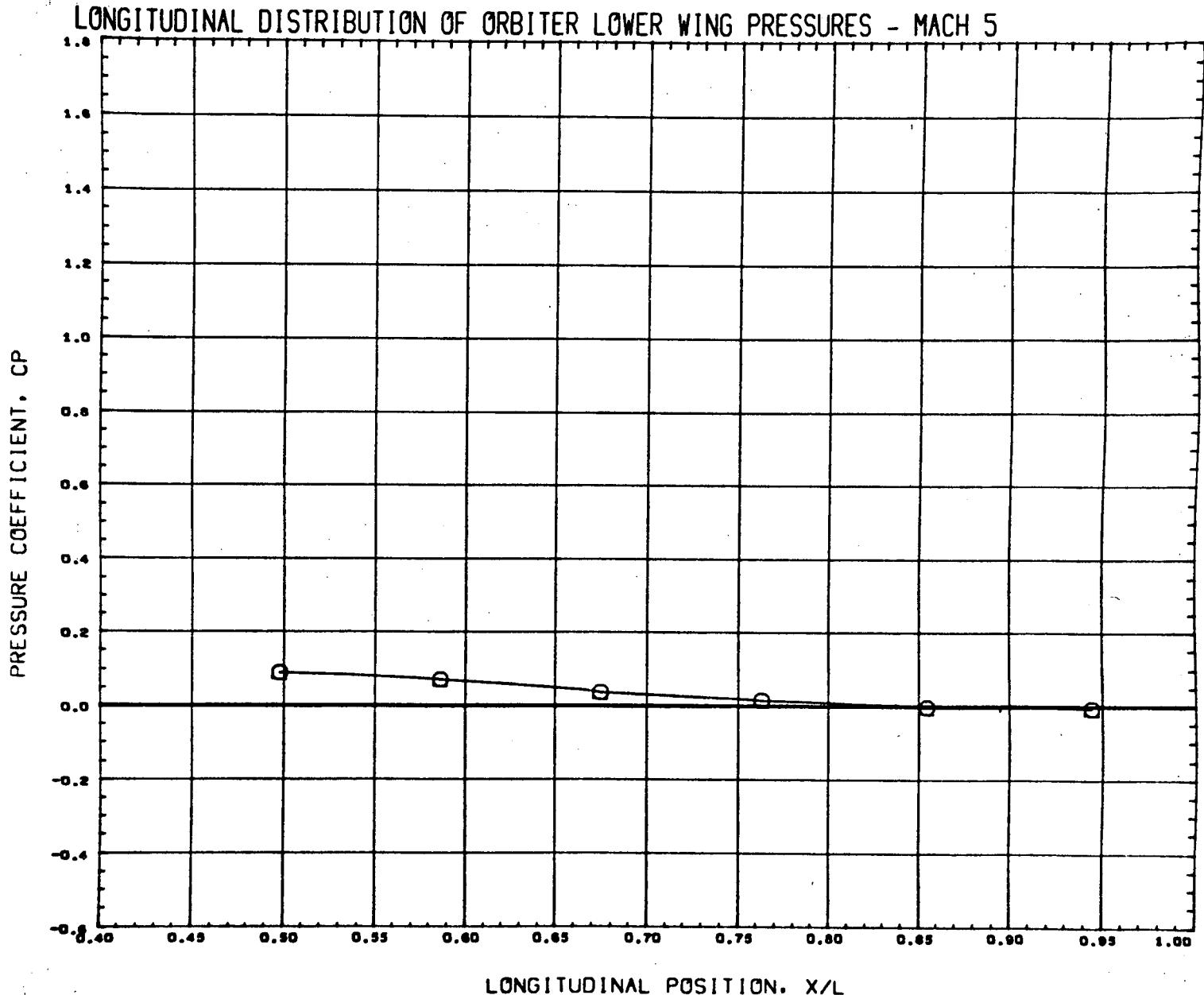
ALPHAB	-	4.906	MACH	4.970
ALPHAI		0.000	ORBPOW	0.000
BSTPOW		0.000		

REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8622•

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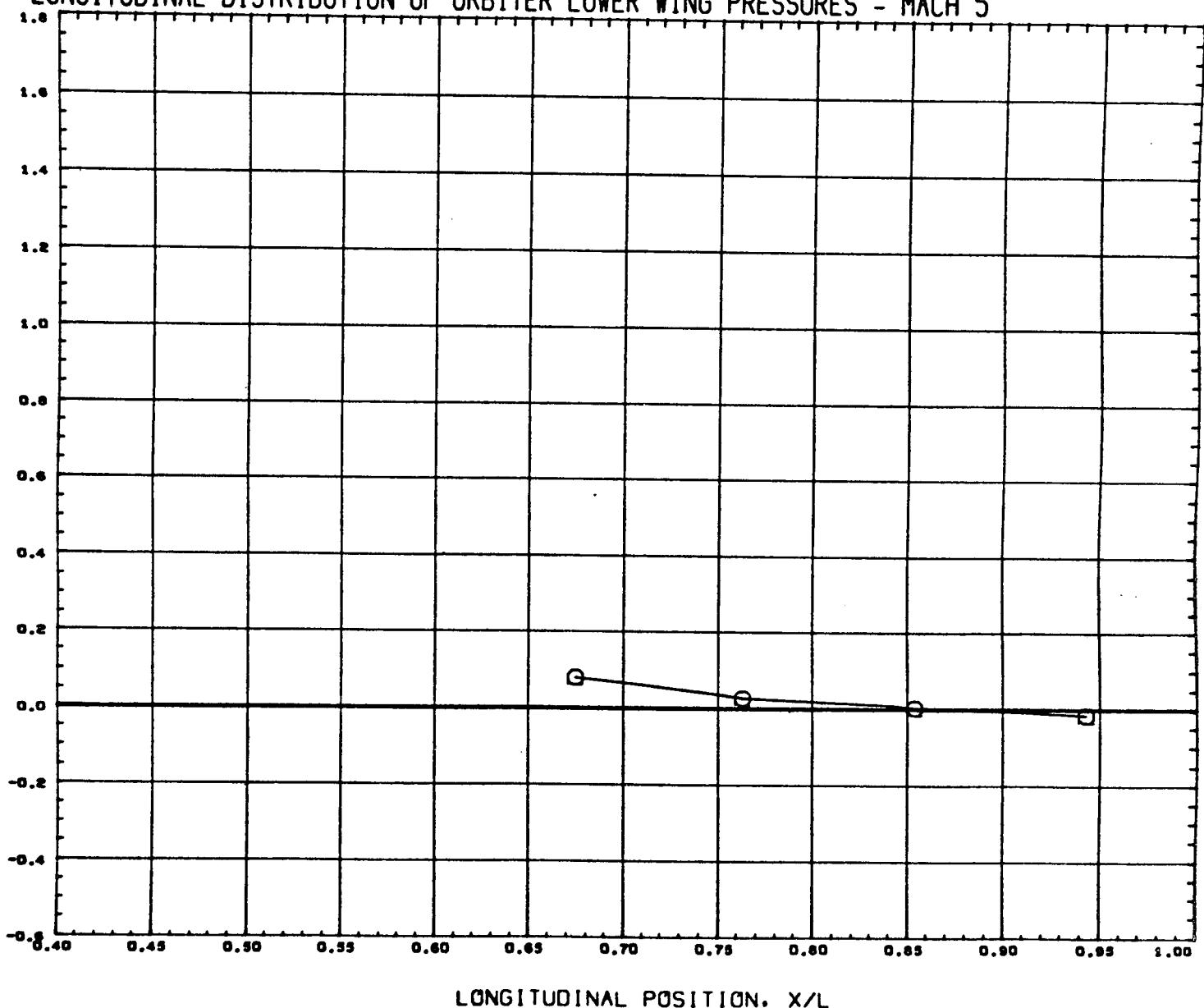
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AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8622•

PAGE 945

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION, X/L

SYMBOL DELTAX Y/8 DELTAZ

\square 0.103 0.399 0.151

PARAMETRIC VALUES			
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ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

REFERENCE FILE

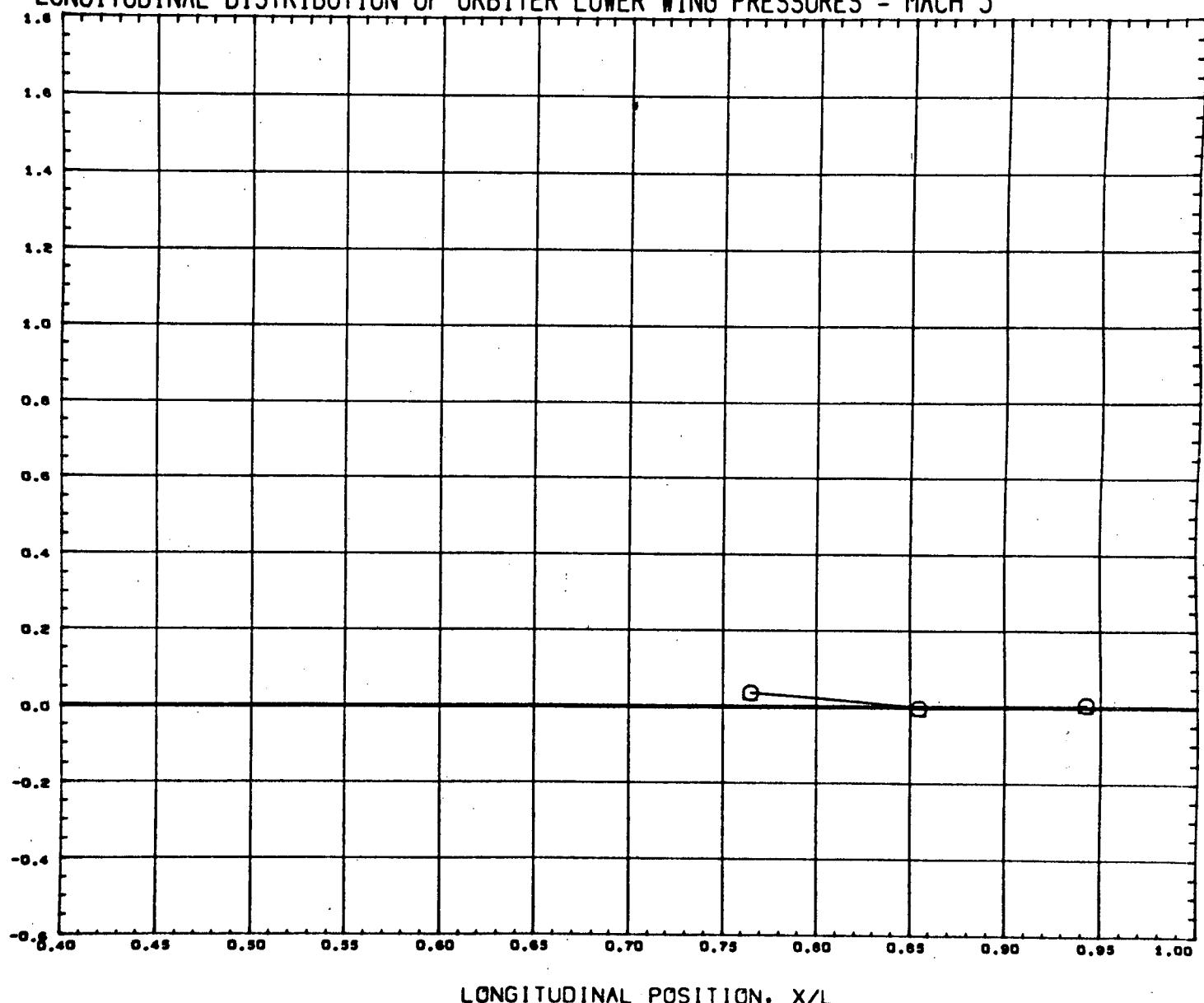
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8622•

PAGE 946

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL DELTAX Y/B DELTAZ

C

0.103 0.968 0.151

PARAMETRIC VALUES			
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ALPHAT	0.000	ORBPOW	0.000
BSTPOW	0.000		

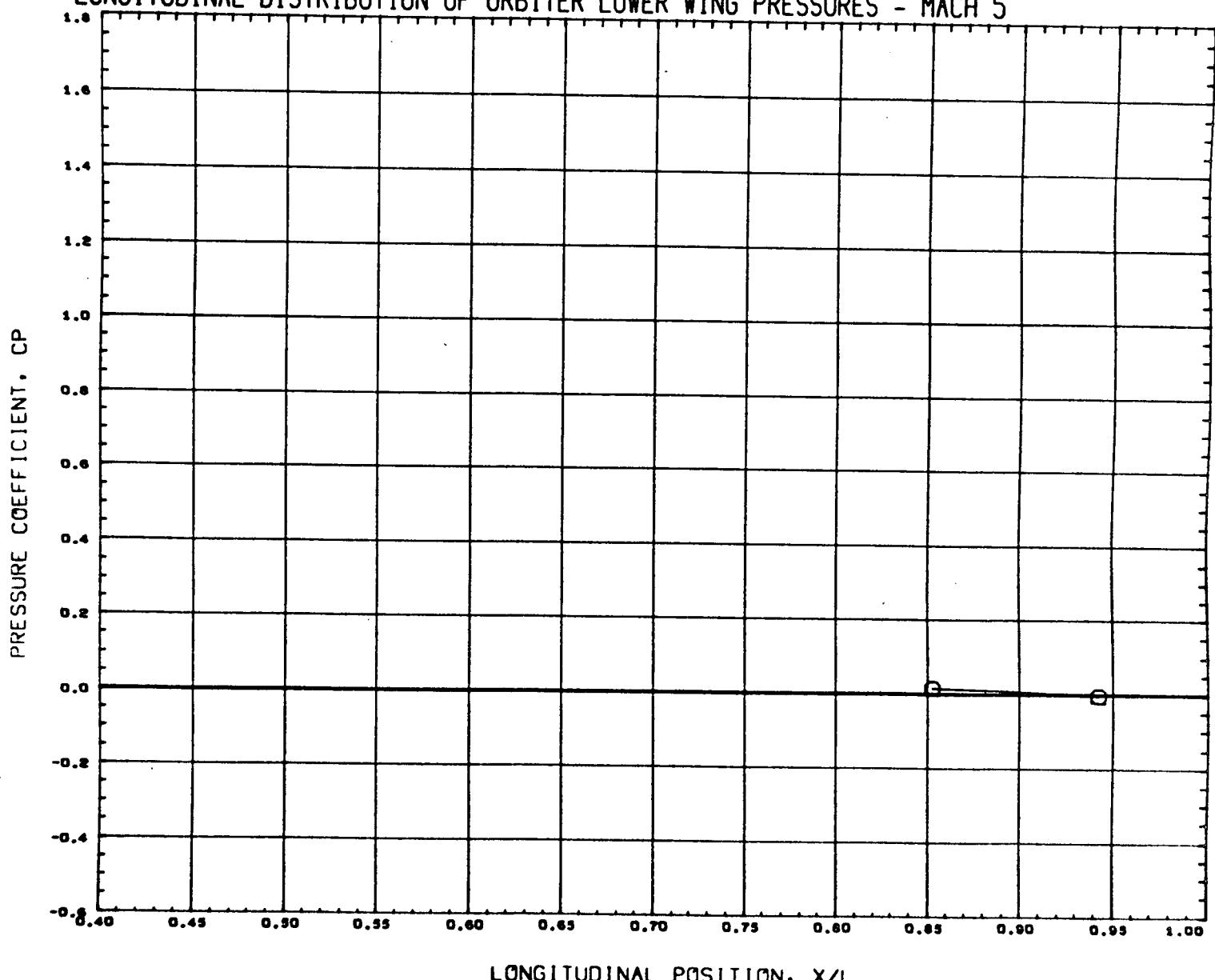
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AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8622•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL DELTAX Y/B DELTAZ

O 0.103 0.730 0.151

PARAMETRIC VALUES

ALPHAB	=	4.906	MACH	4.970
ALPHAI	=	0.000	ORBPW	0.000
BSPW	=	0.000		

REFERENCE FILE

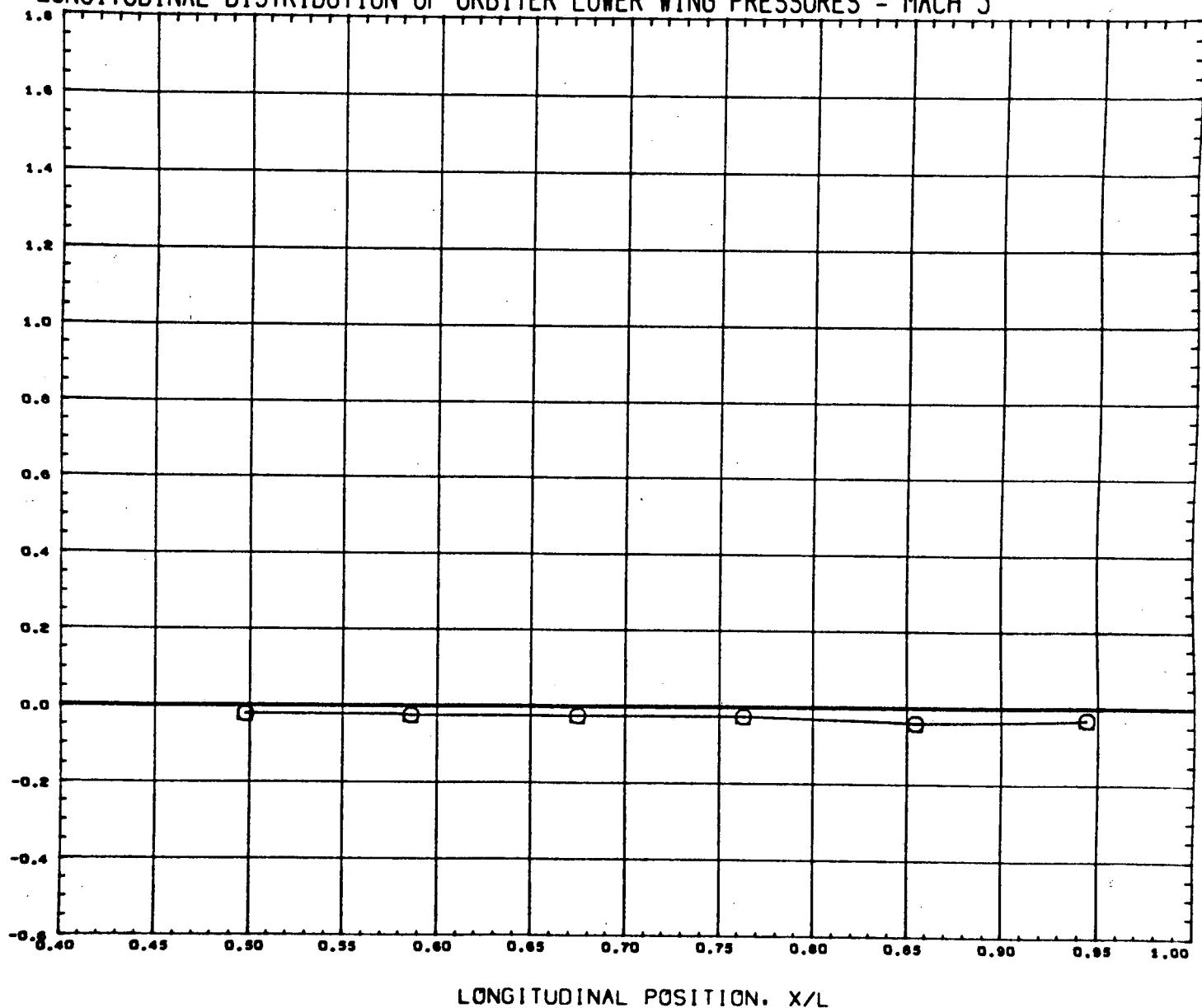
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8622•

PAGE 948

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



SYMBOL DELTAX Y/B DELTAZ
○ 0.320 0.230 0.998

PARAMETRIC VALUES			
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ALPHAT	0.000	ORBPOW	0.000
BSTPOW	0.000		

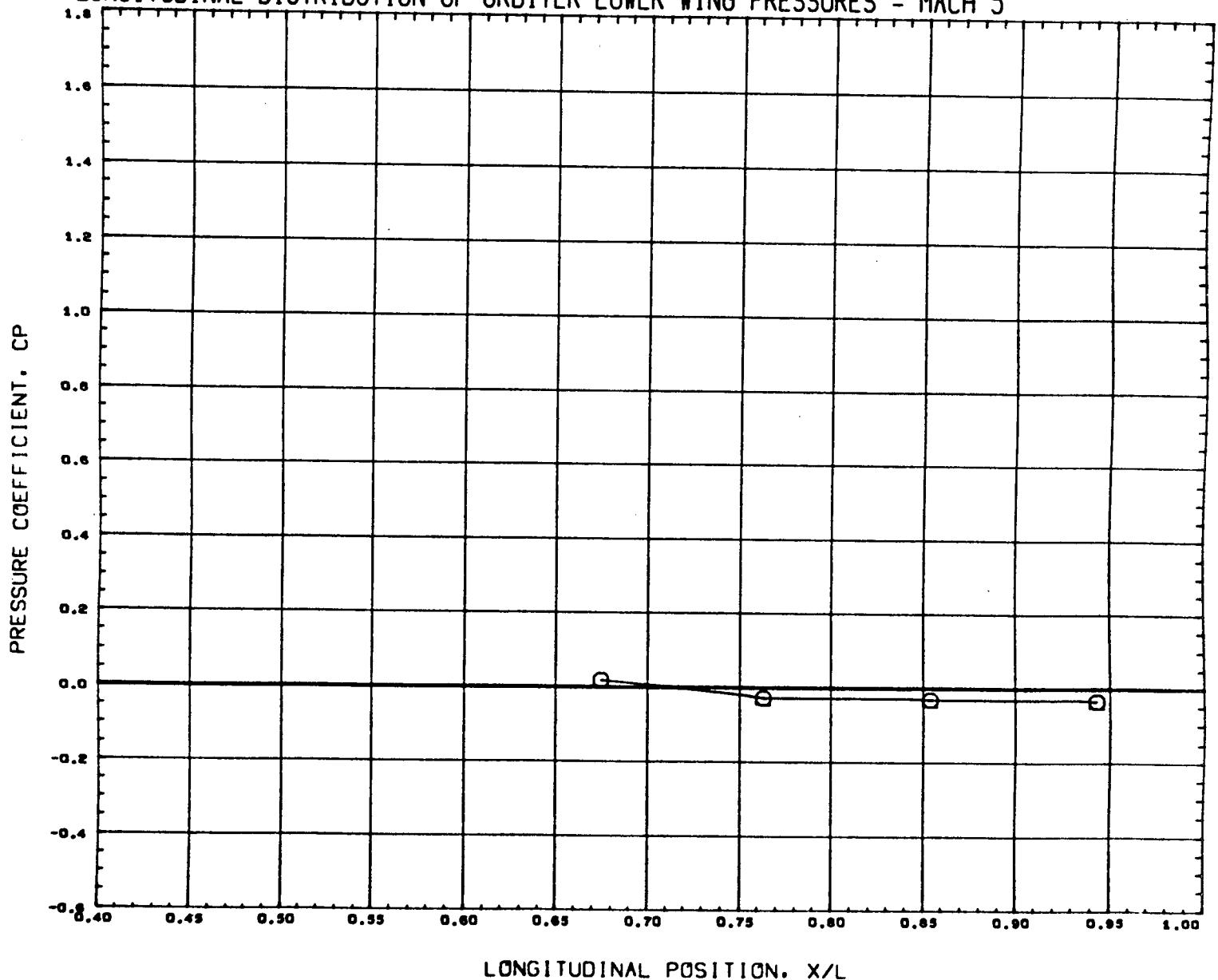
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8622•

PAGE 949

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



REFERENCE FILE

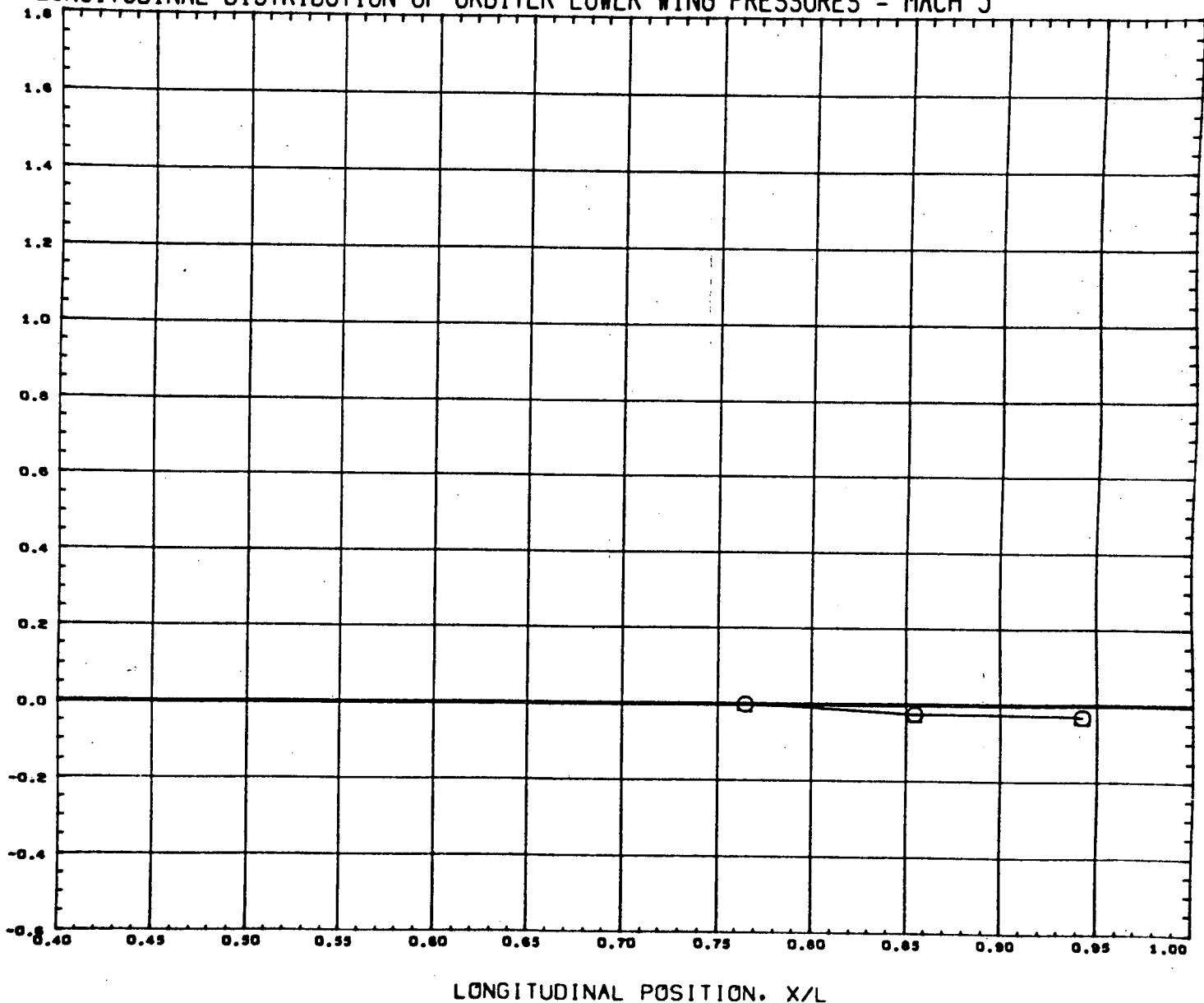
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8622•

PAGE 950

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



SYMBOL DELTAX T/B DELTAZ

○ 0.520 0.569 0.908

LONGITUDINAL POSITION. X/L

PARAMETRIC VALUES	
ALPHAB	- 4.906
ALPHAI	0.000
BSTPOW	0.000
MACH	4.970
ORBPOW	0.000

REFERENCE FILE

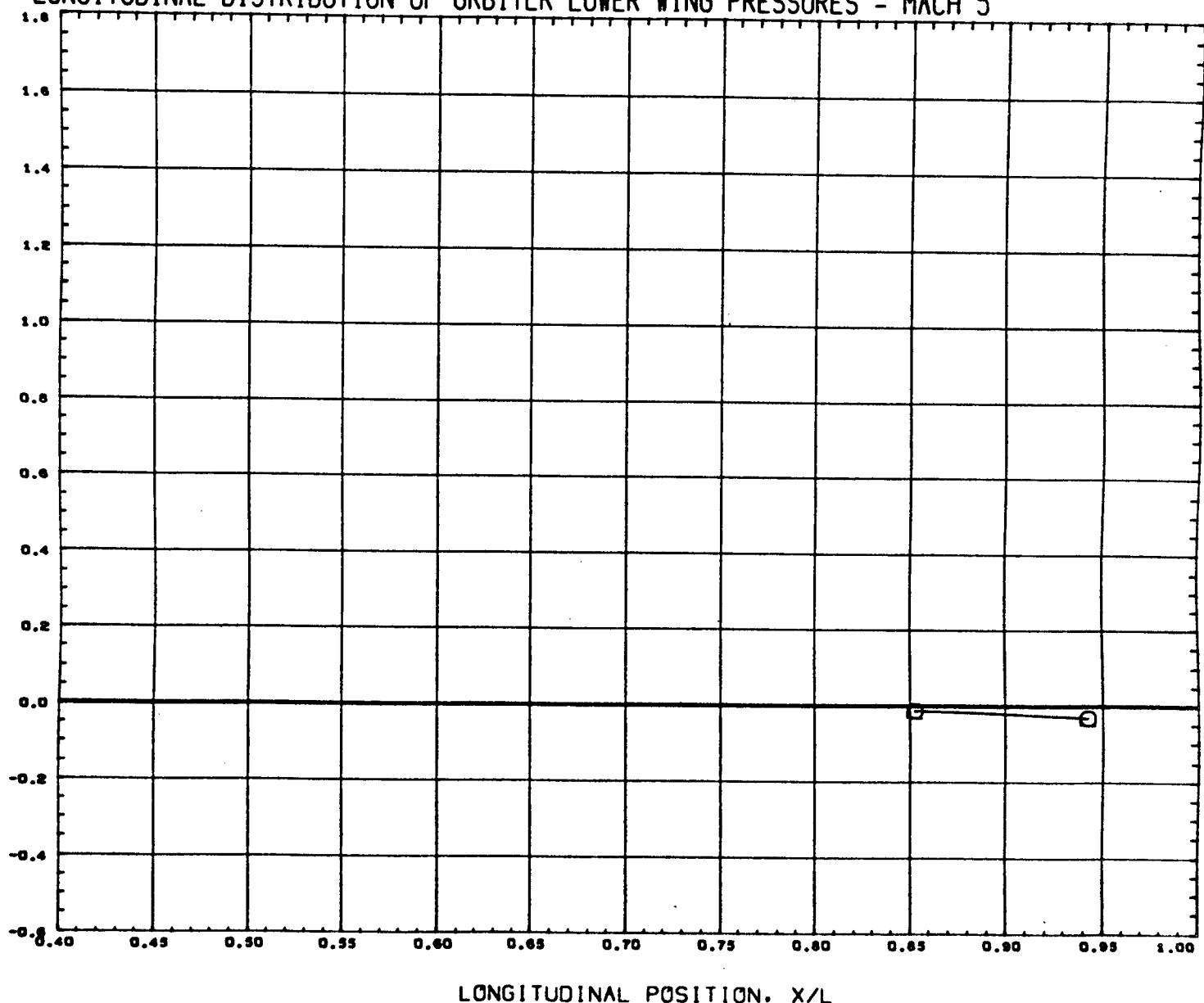
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8622•

PAGE 951

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION. X/L

SYMBOL DELTAX Y/B DELTAZ

C 0.920 0.730 0.900

PARAMETRIC VALUES

	ALPHAB	MACH
	4.906	4.970
	ALPHAI	ORBFOW
	0.000	0.000
	BSTPOW	
	0.000	

REFERENCE FILE

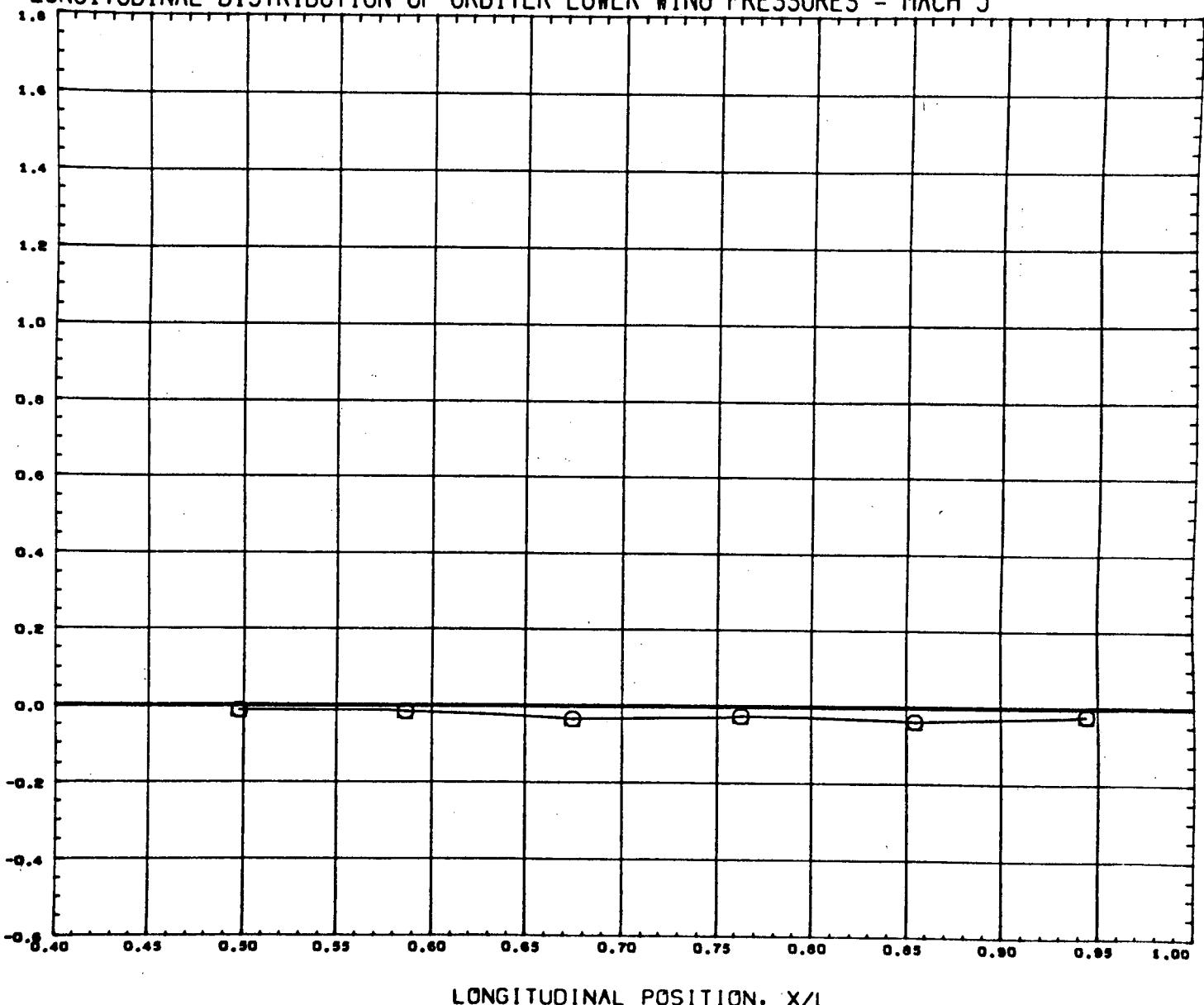
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8622•

PAGE 952

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



LONGITUDINAL POSITION. X/L

SYMBOL	DELTA X	Y/B	DELTA Z
O	0.103	0.230	0.106

PARAMETRIC VALUES			
ALPHAB	0.050	MACH	4.970
ALPHAI	0.000	ORBPOW	0.000
B3TPOW	0.000		

REFERENCE FILE

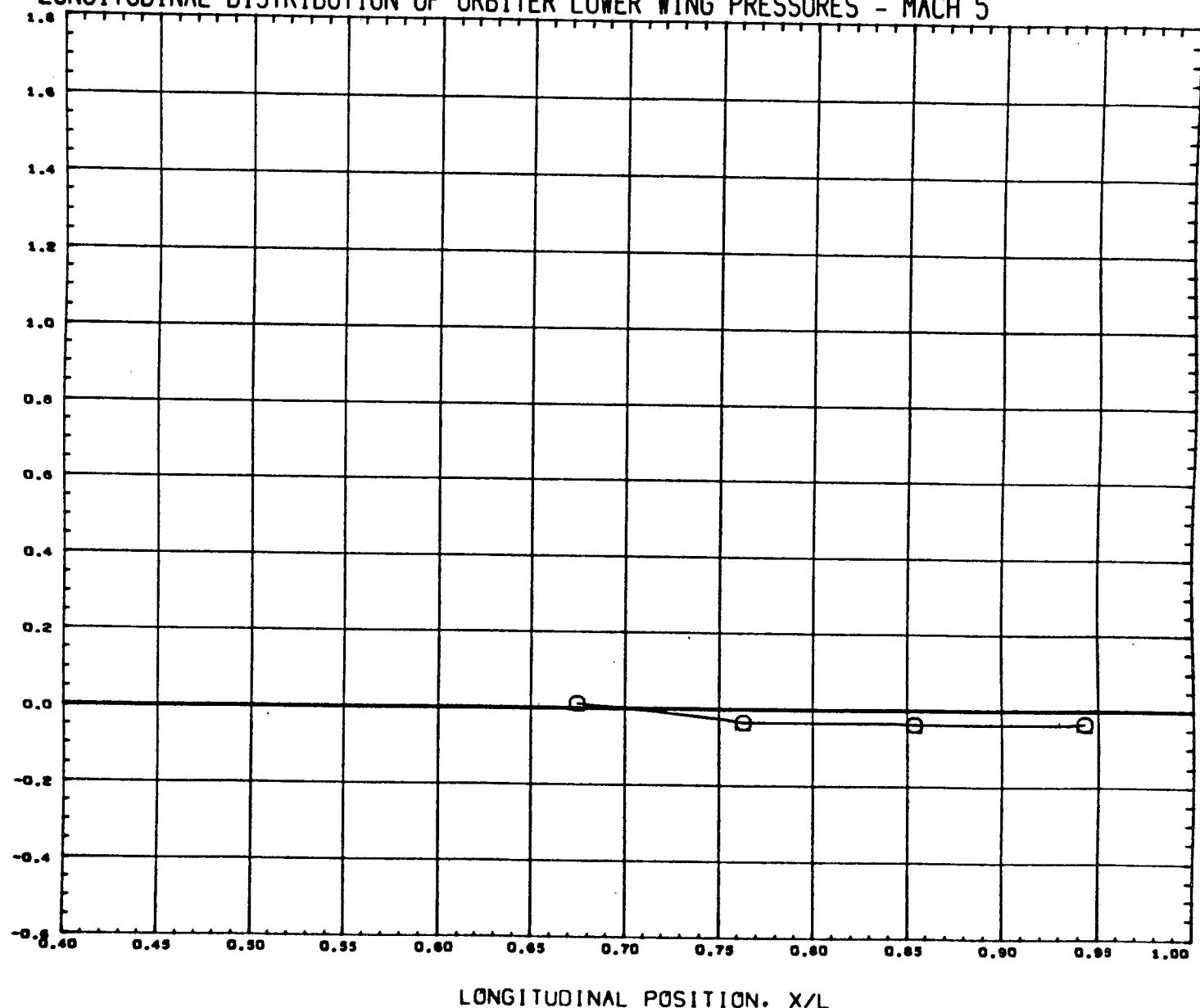
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8623•

PAGE 953

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



LONGITUDINAL POSITION. X/L

SYMBOL DELTAX Y/B DELTAZ
□ 0.103 0.399 0.106

PARAMETRIC VALUES
ALPHAB 0.050 MACH 4.970
ALPHAI 0.000 ORBPOW 0.000
BSPW 0.000

REFERENCE FILE

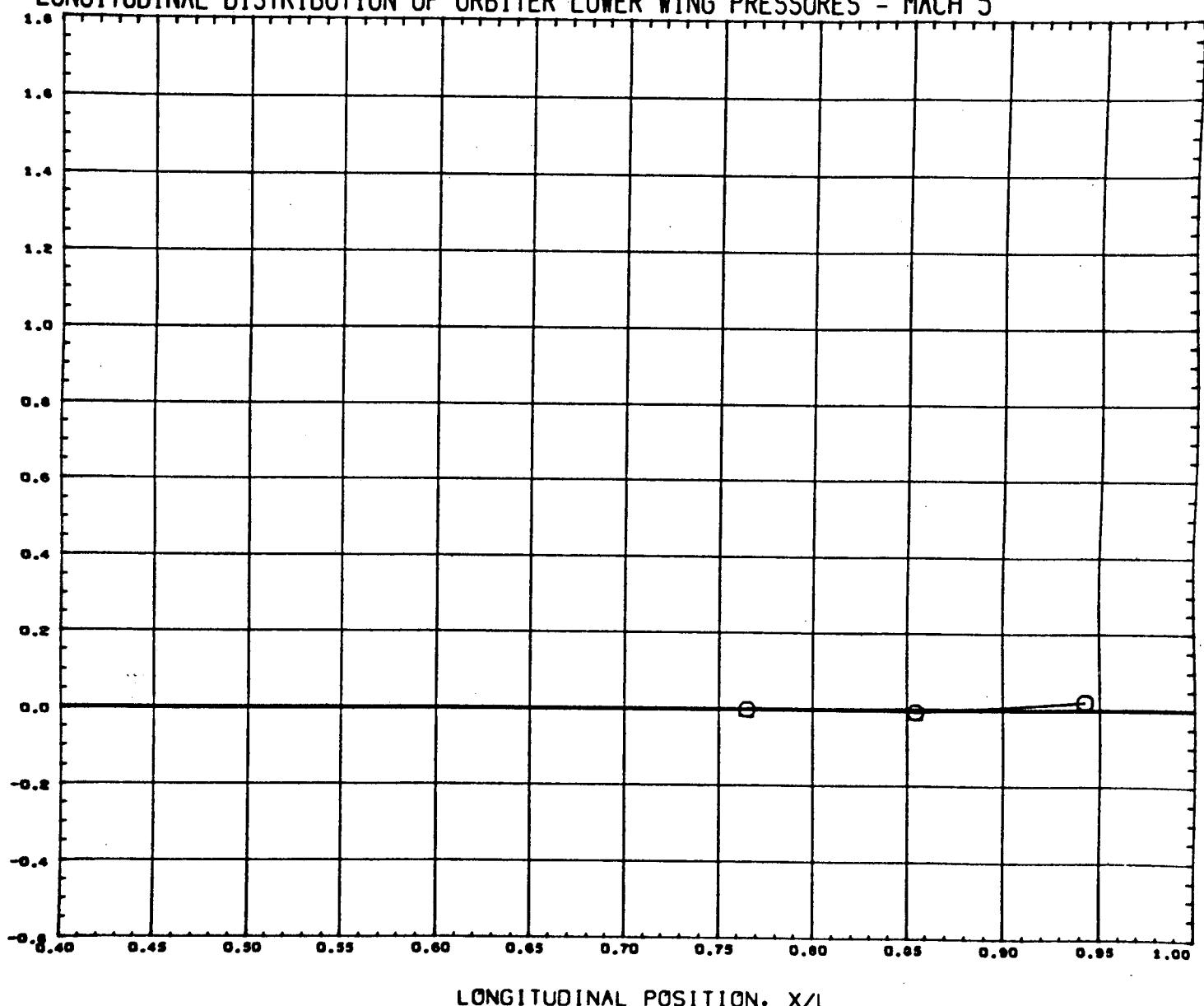
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8623•

PAGE 954

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



SYMBOL DELTAX T/B DELTAZ
C 0.103 0.566 0.106

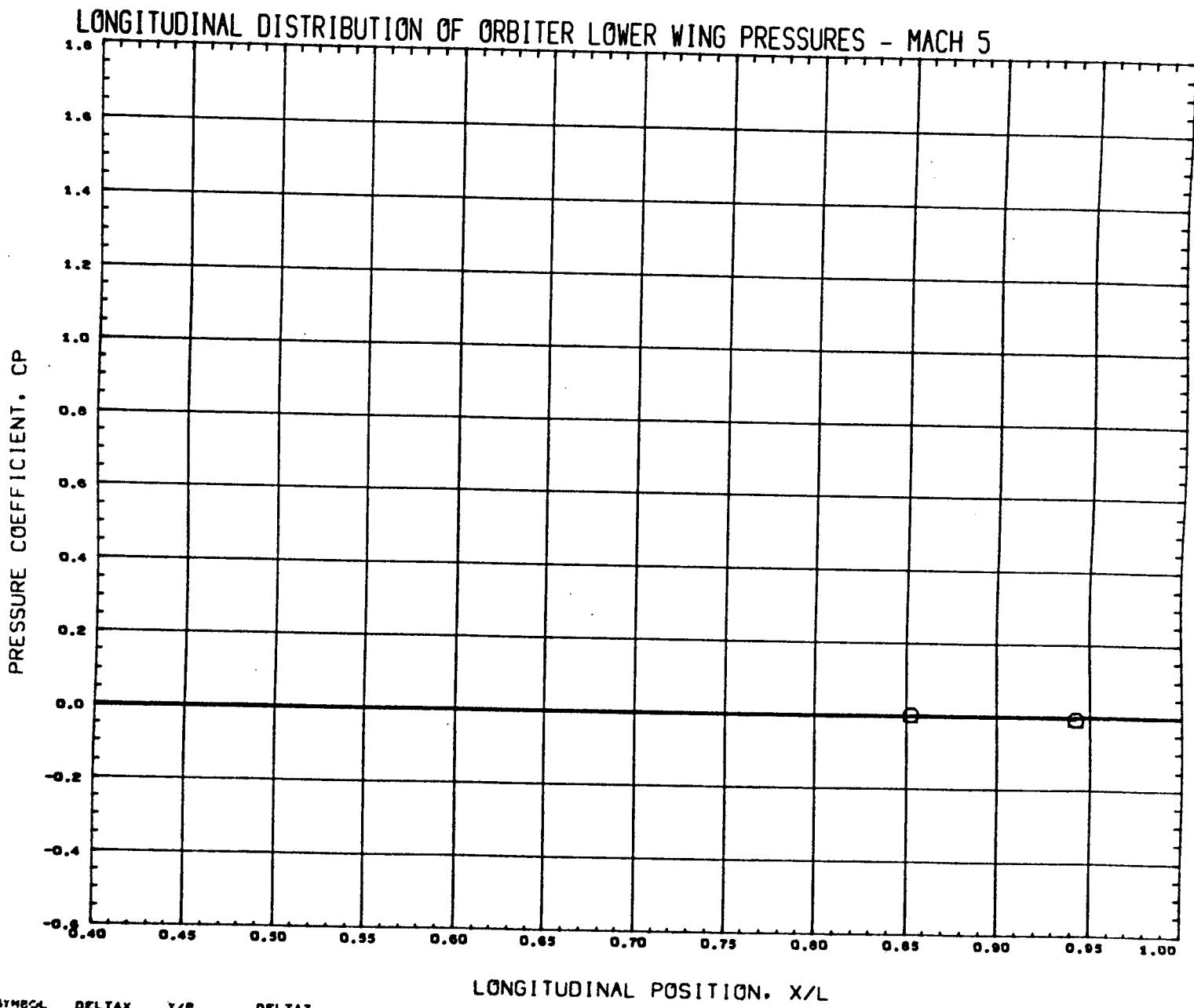
PARAMETRIC VALUES		
ALPHAB	0.050	MACH 4.970
ALPHAI	0.000	ORBPOW 0.000
BSTPOW	0.000	

REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8623•

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SYMBOL DELTAX Y/B DELTAZ
 C 0.103 0.736 0.106

PARAMETRIC VALUES		
ALPHAB	0.050	MACH 4.970
ALPHAI	0.000	ORBPOW 0.000
BSTPOW	0.000	

REFERENCE FILE

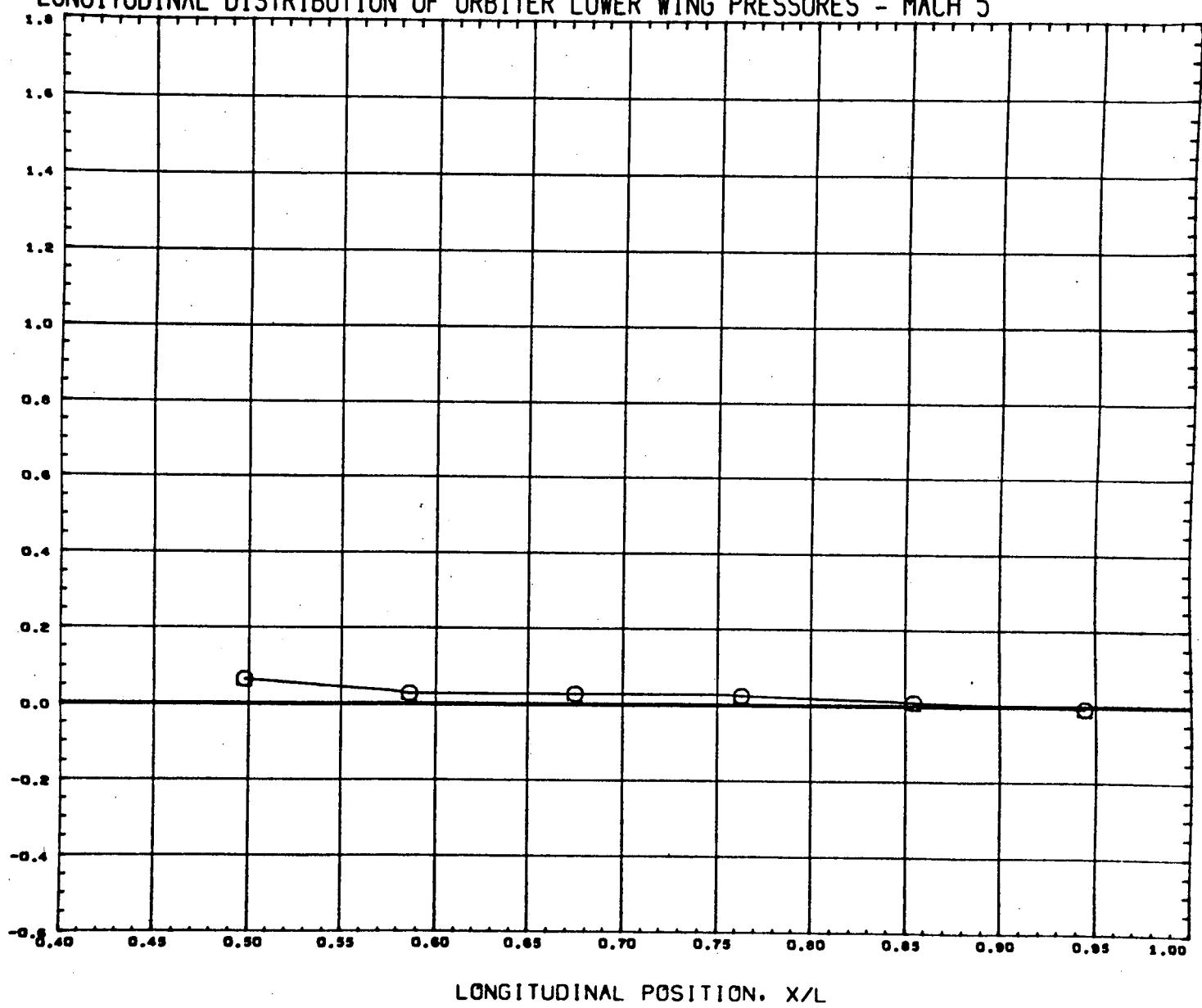
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8623•

PAGE 956

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



SYMBOL DELTAX Y/B DELTAZ

 0.103 0.230 0.151

PARAMETRIC VALUES

	ALPHAB	MACH	ORBPOW
ALPHAI	0.050	4.970	0.000
BSTPOW	0.000		0.000

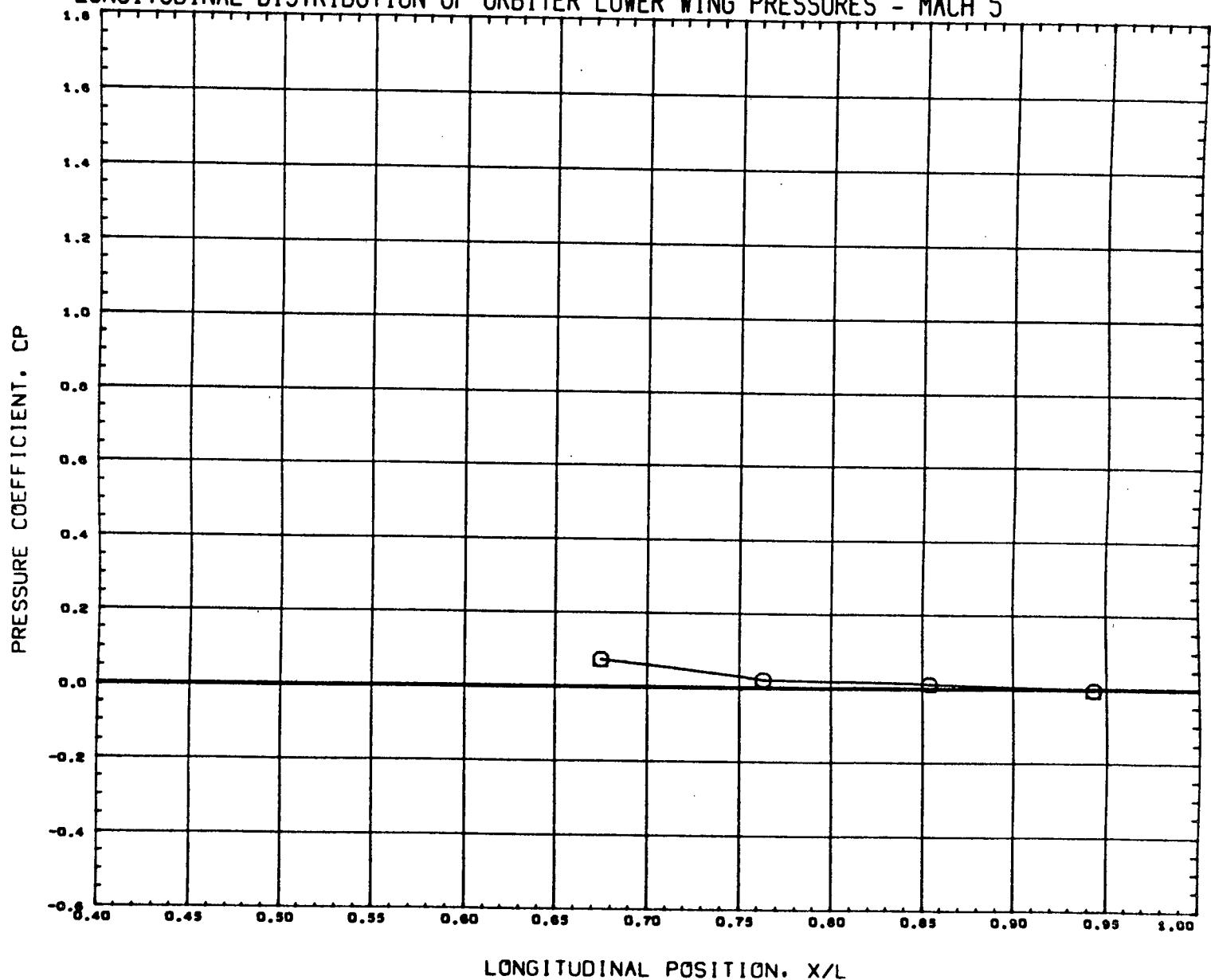
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8623•

PAGE 957

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL DELTAX Y/B DELTAZ

 0.103 0.399 0.151

PARAMETRIC VALUES

ALPHAB	0.050	MACH	4.970
ALPHAT	0.000	ORBPOW	0.000
BSTPOW	0.000		

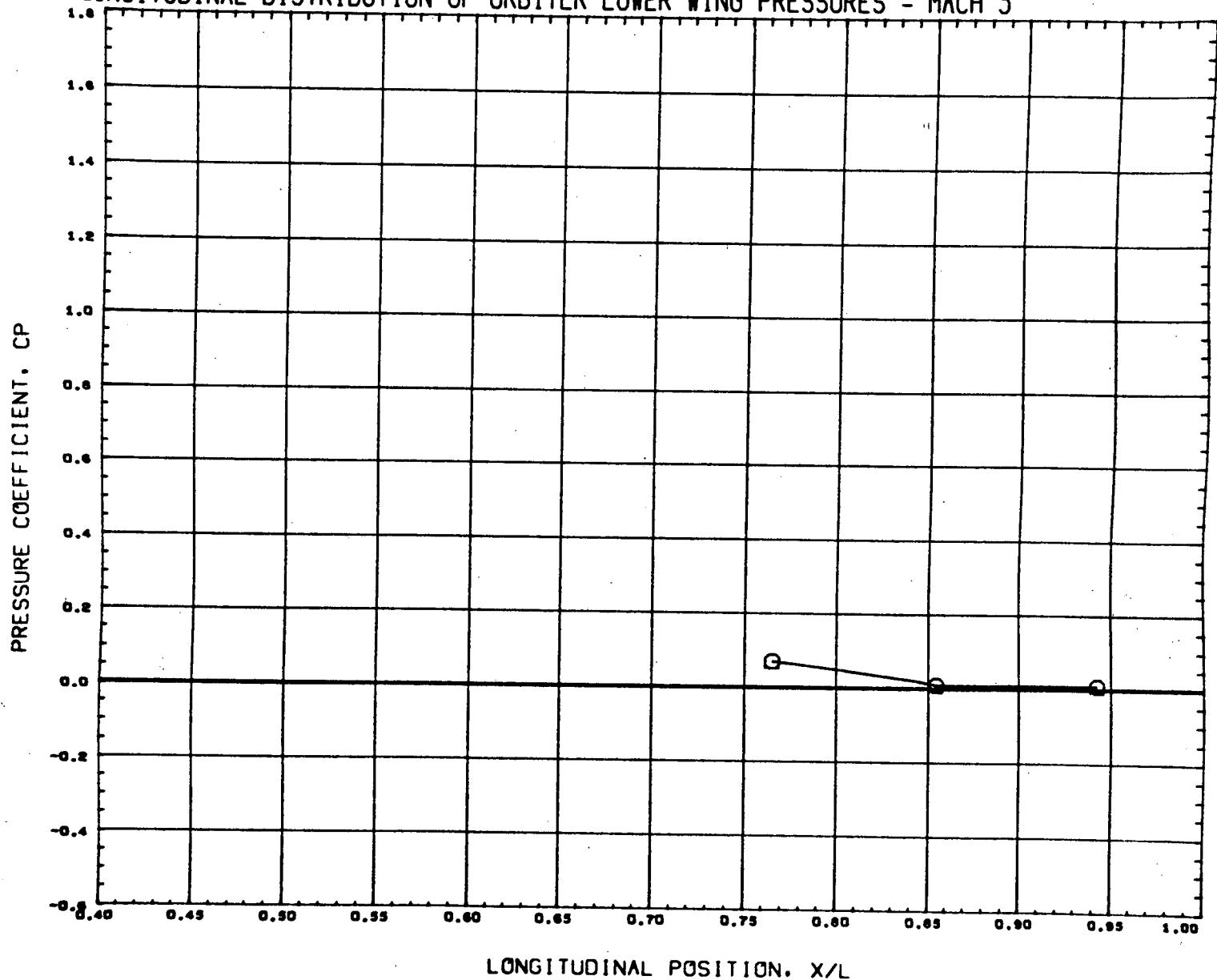
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AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8623•

PAGE 958

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



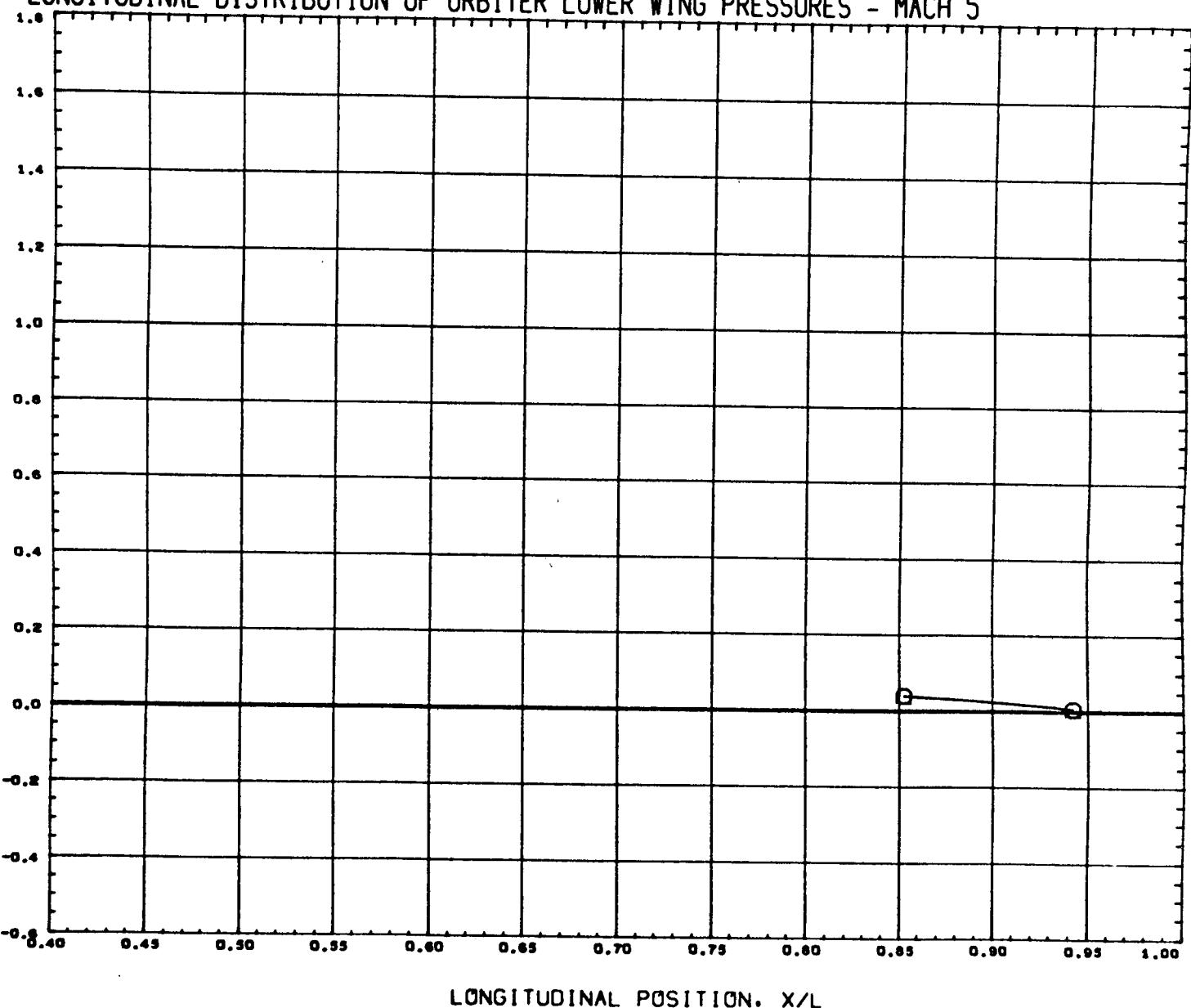
REFERENCE FILE
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8623•

PAGE 959

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



LONGITUDINAL POSITION. X/L

SYMBOL DELTAX Y/B DELTAZ
C 0.103 0.736 0.191

PARAMETRIC VALUES	
ALPHAB	0.050
ALPHAI	0.000
BSTPOW	0.000
MACH	4.970
ORBPOW	0.000

REFERENCE FILE

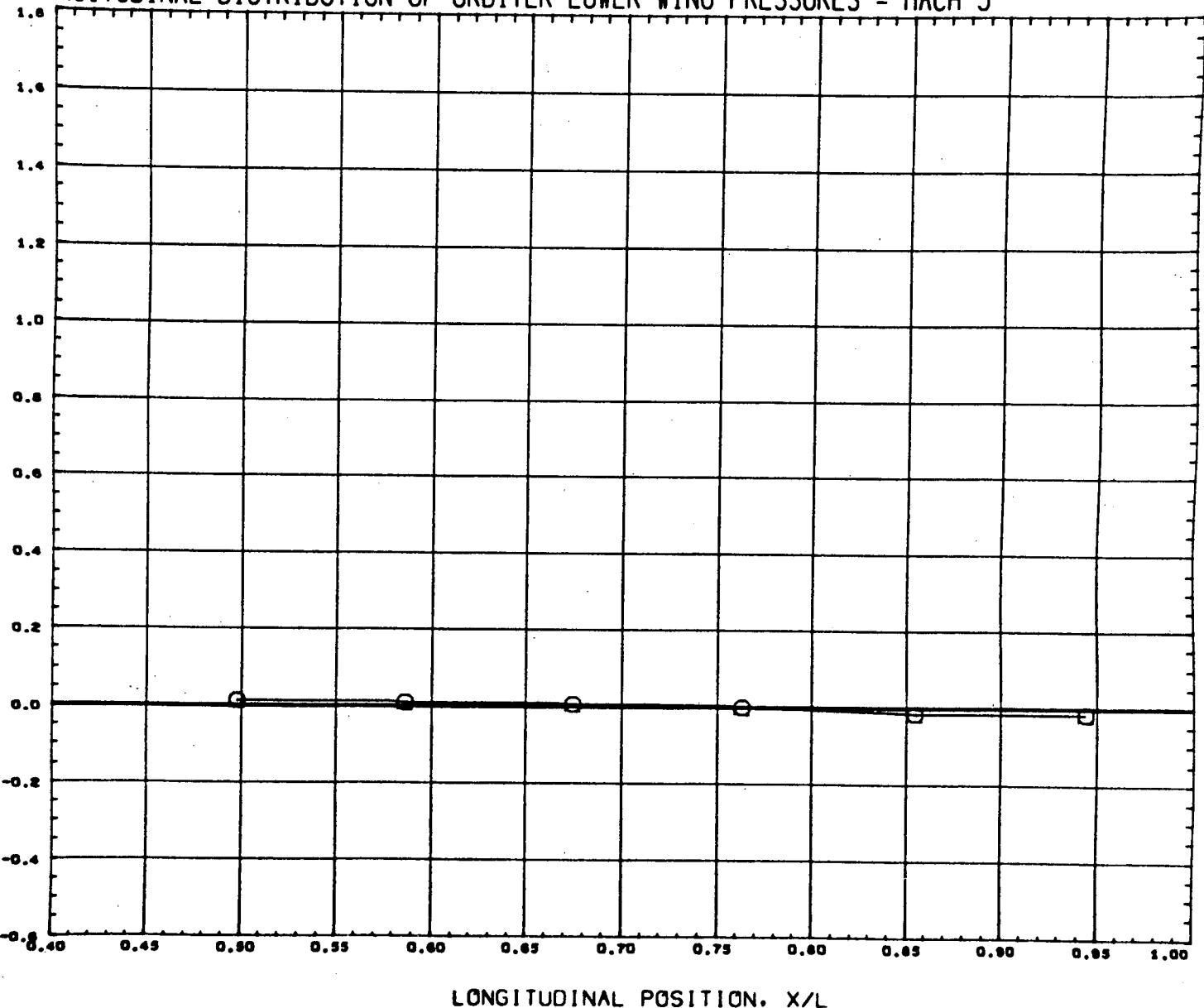
AEDC VAI163 MDAC ORBITER (LOWER WING)

•HT8623•

PAGE 960

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



LONGITUDINAL POSITION. X/L

SYMBOL DELTAX T/S DELTAZ
○ 0.520 0.230 0.906

PARAMETRIC VALUES			
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ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

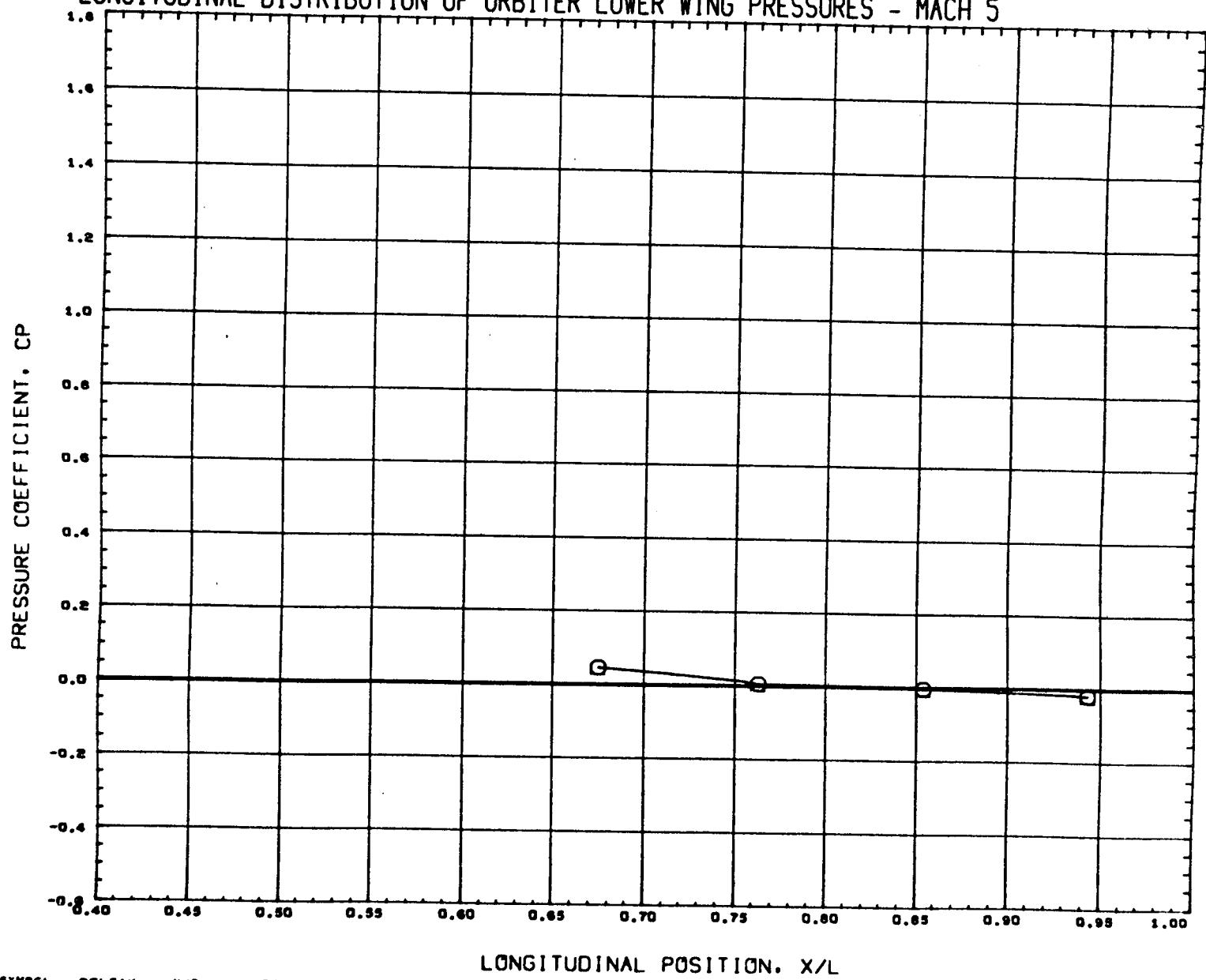
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AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8623•

PAGE 961

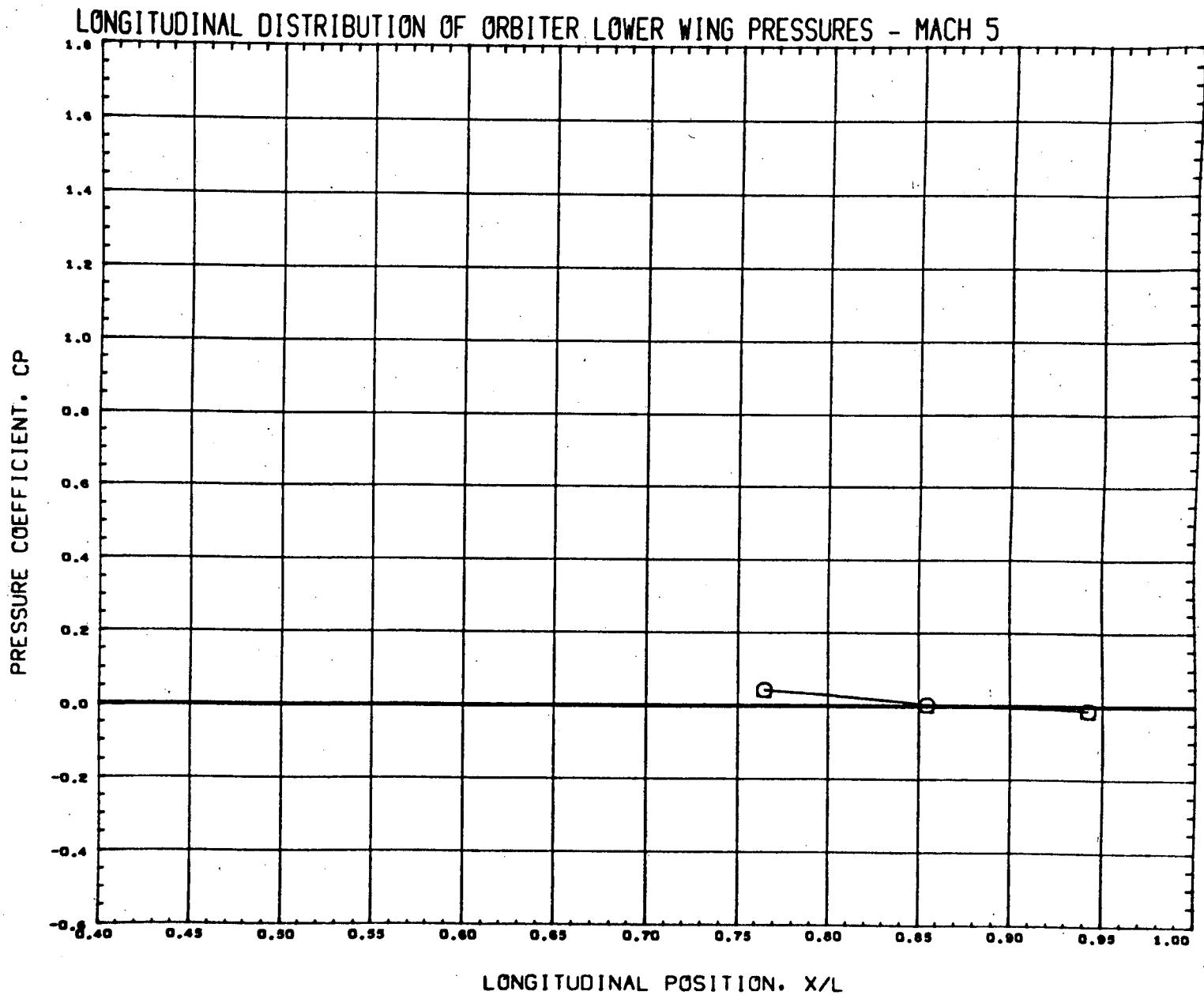
LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



REFERENCE FILE
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8623•

PAGE 962



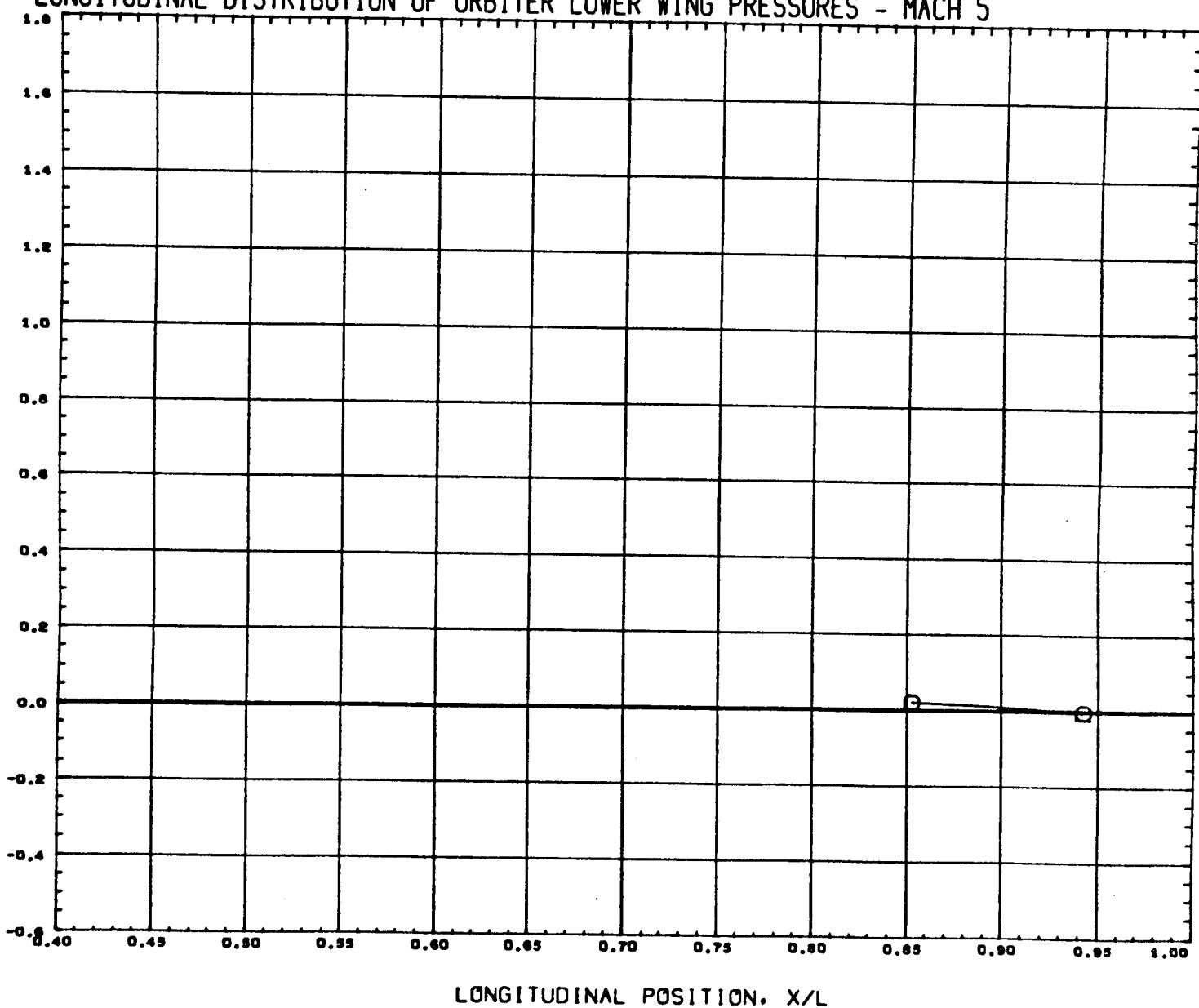
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AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8623•

PAGE 963

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION, X/L

SYMBOL DELTAX Y/B DELTAZ
C 0.920 0.736 0.906

PARAMETRIC VALUES			
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ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

REFERENCE FILE

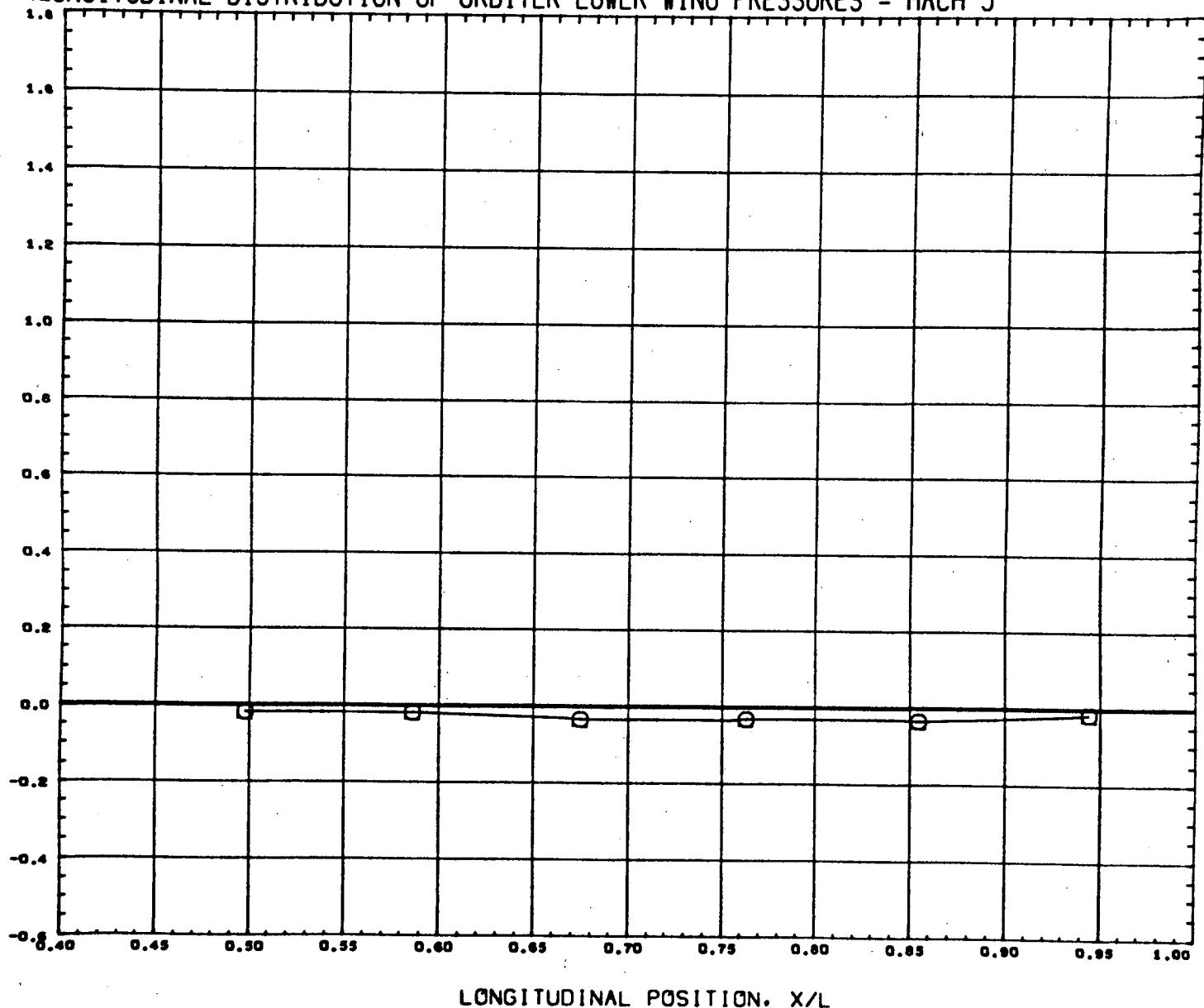
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8623•

PAGE 964

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



LONGITUDINAL POSITION. X/L

SYMBOL DELTAX Y/B DELTAZ
O 0.103 0.230 0.106

PARAMETRIC VALUES	
ALPHAB	5.026
ALPHAI	0.000
BSTPOW	0.000
MACH	4.970
ORBPOW	0.000

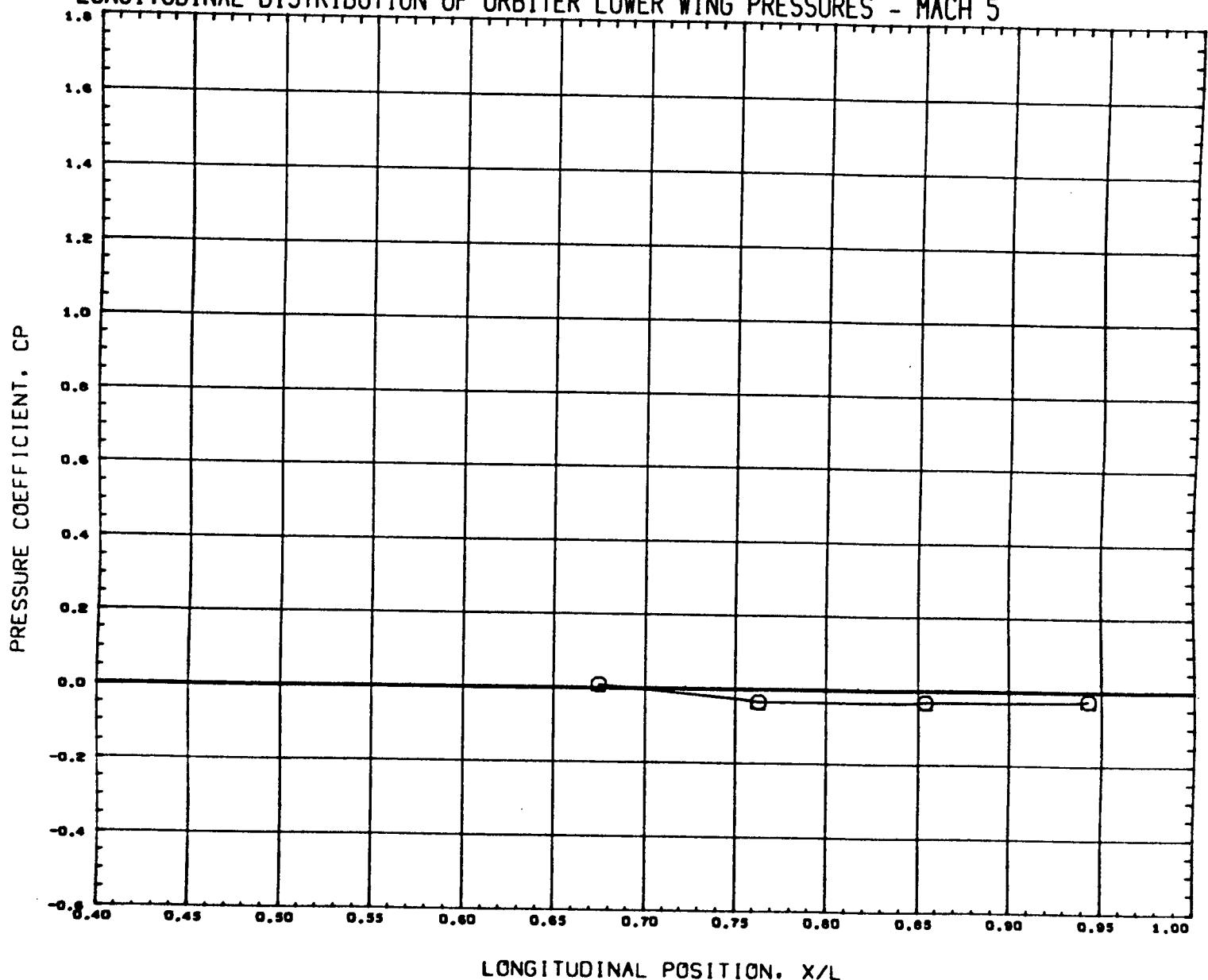
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8624•

PAGE 965

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL DELTAX Y/e DELTAZ
 \odot 0.103 0.399 0.106

LONGITUDINAL POSITION, X/L

PARAMETRIC VALUES			
ALPHAB	5.026	MACH	4.970
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

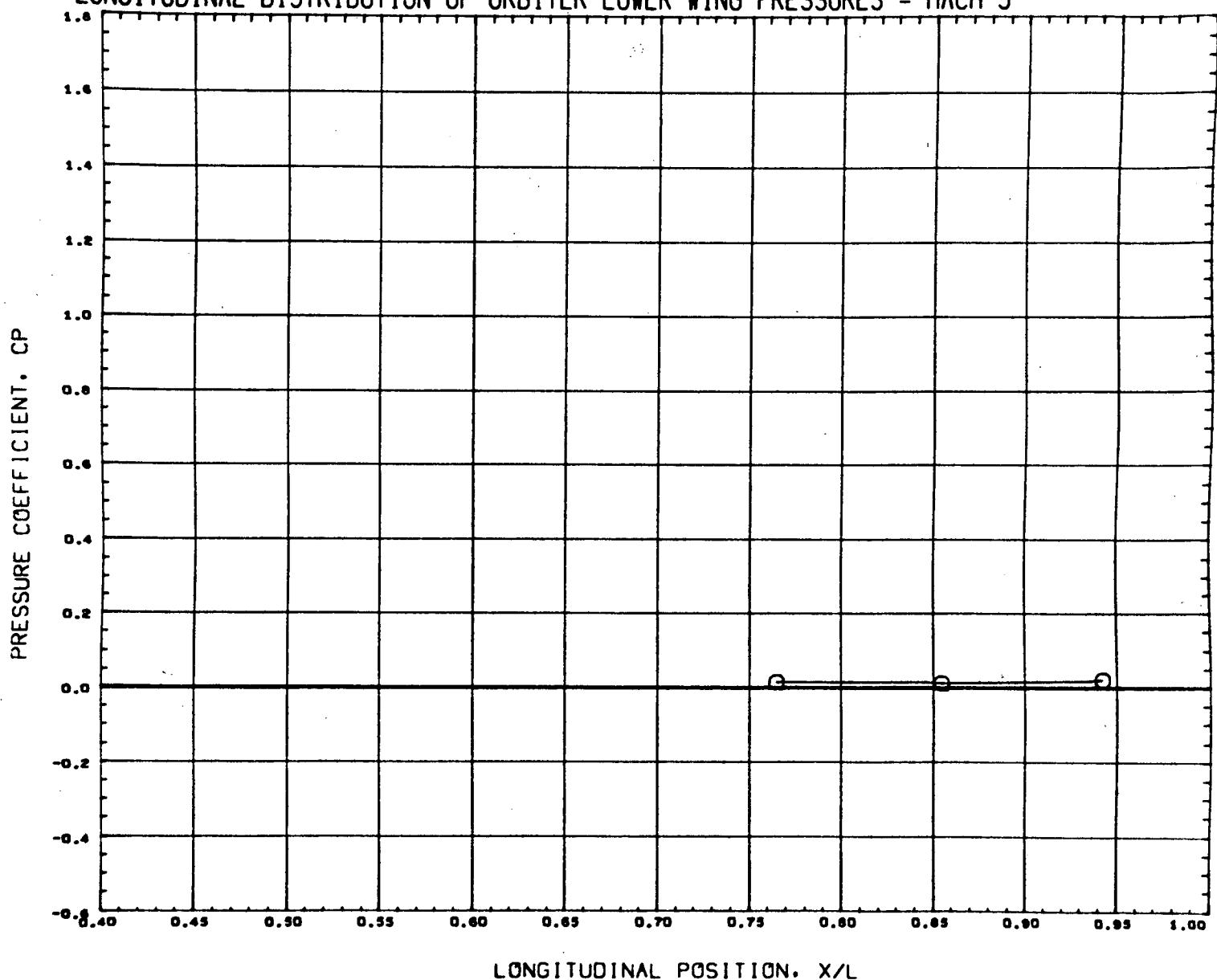
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AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8624•

PAGE 966

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
\odot	0.103	0.368	0.106

PARAMETRIC VALUES	
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ALPHAT	0.000
BSTPOW	0.000

REFERENCE FILE

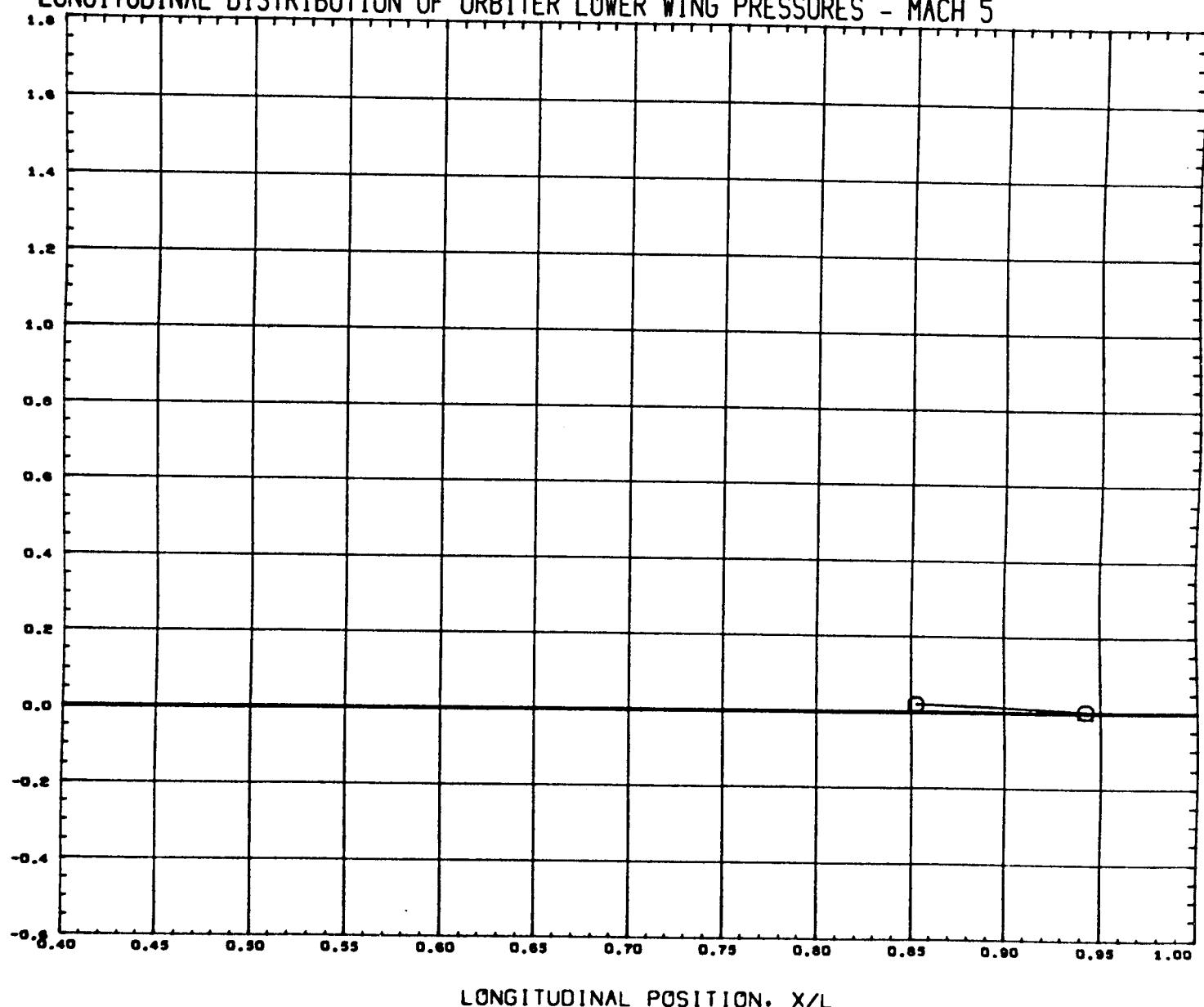
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8624•

PAGE 967

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION, X/L

SYMBOL DELTAX Y/B DELTAZ
C 0.103 0.739 0.106

PARAMETRIC VALUES			
ALPHAB	5.026	MACH	4.970
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

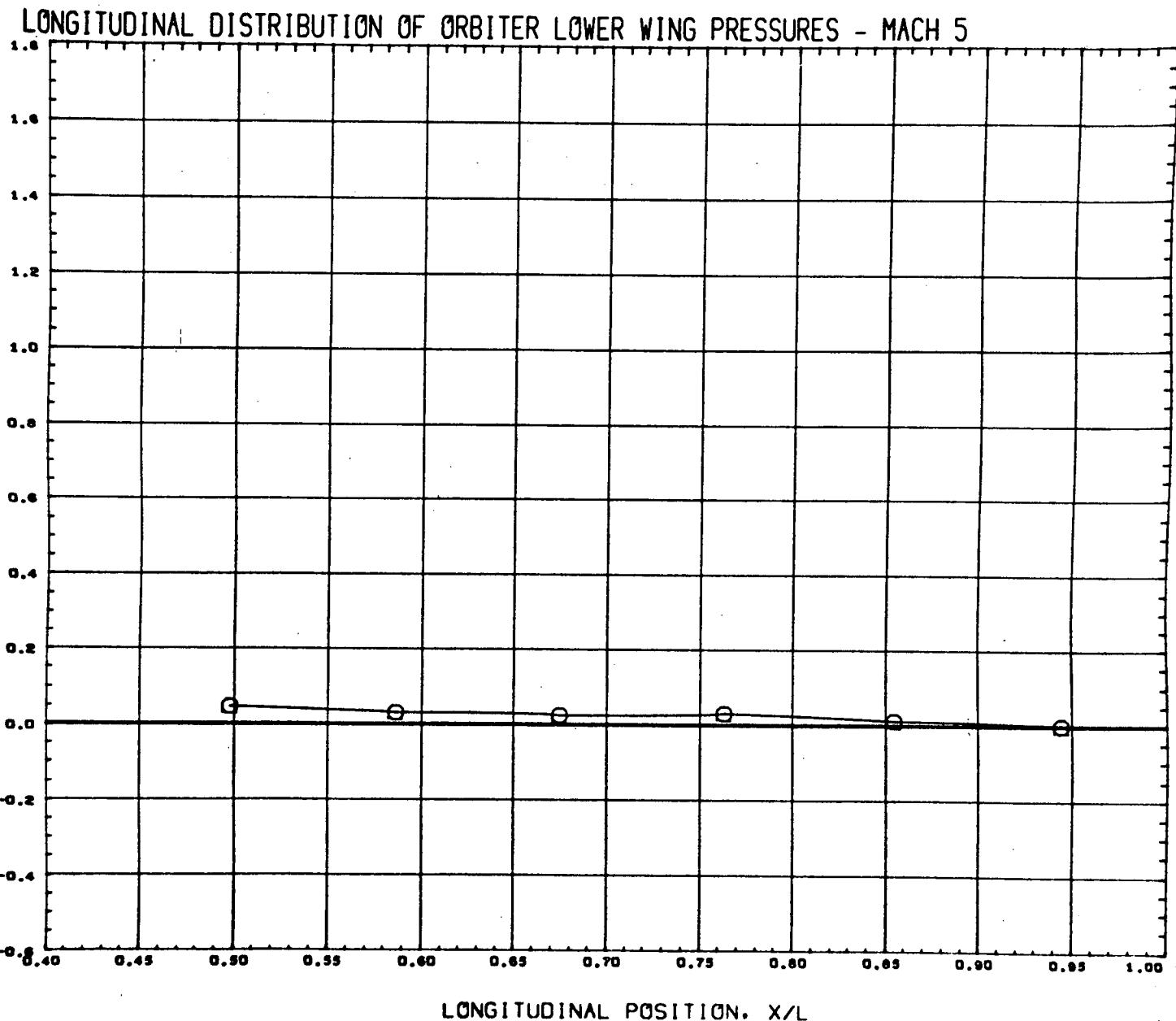
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8624•

PAGE 968

PRESSURE COEFFICIENT - CP



SYMBOL DELTAX Y/B DELTAZ

□ 0.103 0.230 0.151

PARAMETRIC VALUES

ALPHAB	5.026	MACH	4.970
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

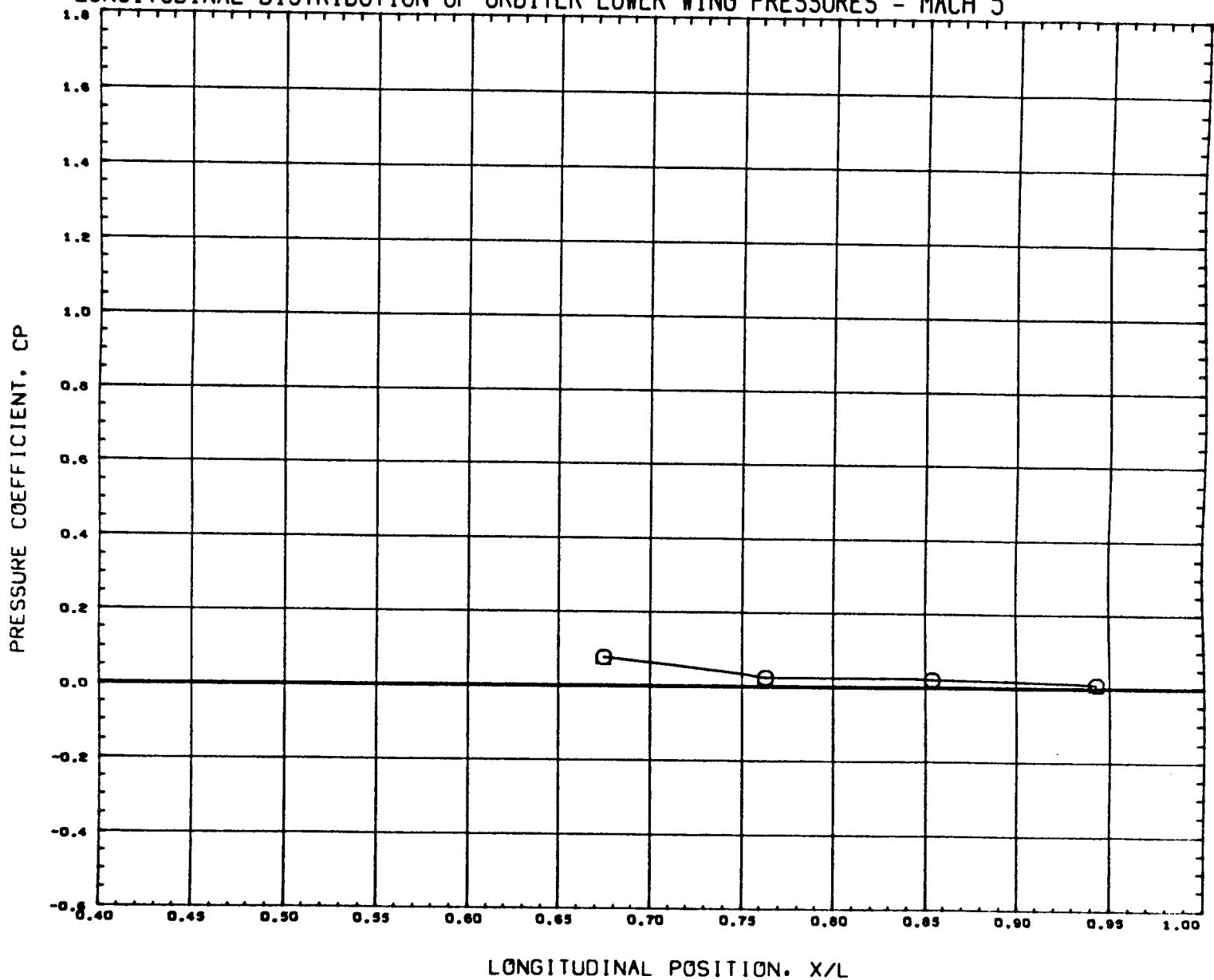
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8624•

PAGE 969

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



REFERENCE FILE

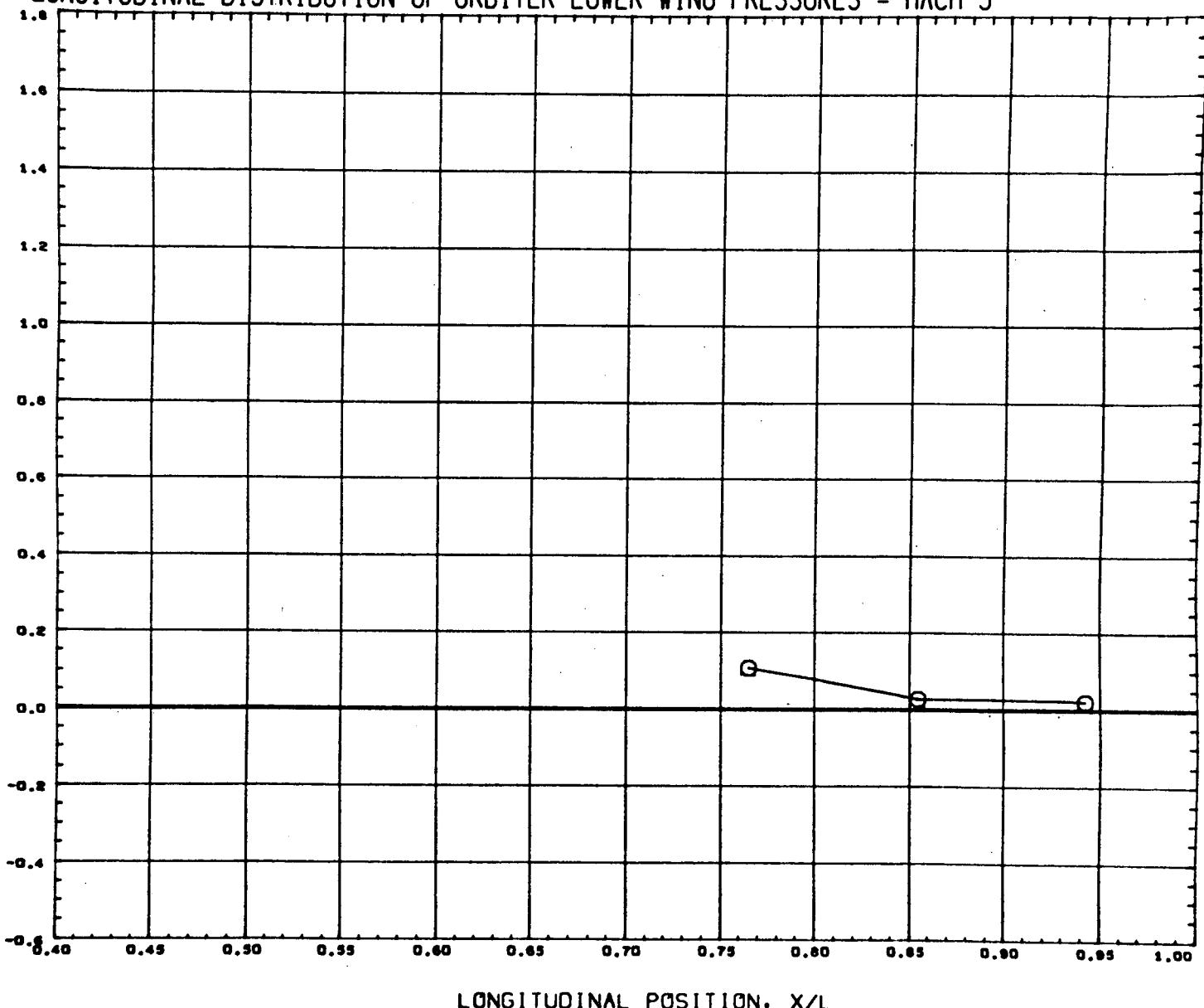
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8624•

PAGE 970

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	T/B	DELTA Z
G	0.103	0.366	0.151

PARAMETRIC VALUES			
ALPHAB	5.026	MACH	4.970
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

REFERENCE FILE

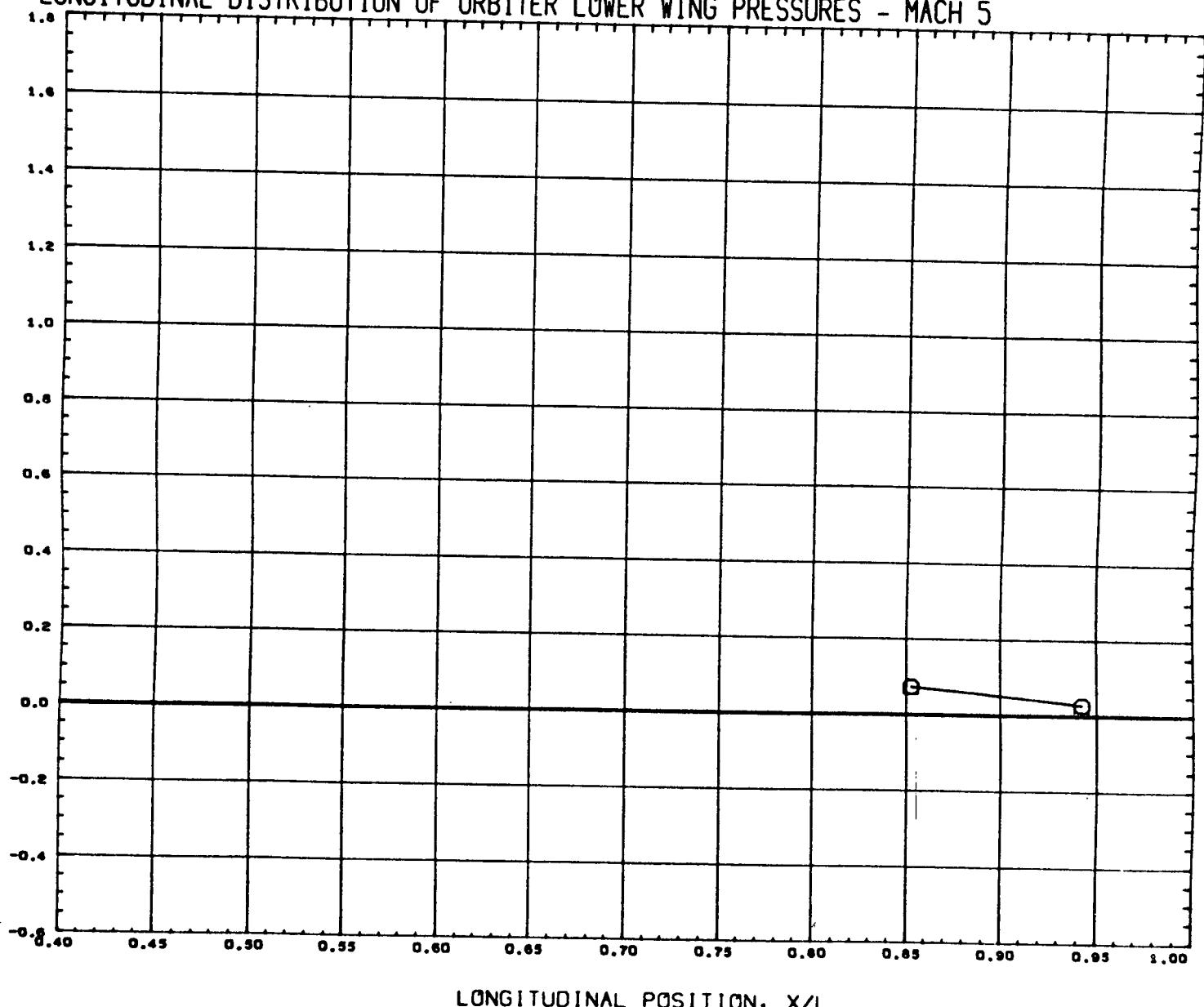
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8624•

PAGE 971

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



SYMBOL DELTAX Y/Z DELTAZ

C

0.103

0.736

0.151

PARAMETRIC VALUES

ALPHAB

5.026

MACH

4.970

ALPHAI

0.000

ORBPOW

0.000

BSTPOW

0.000

REFERENCE FILE

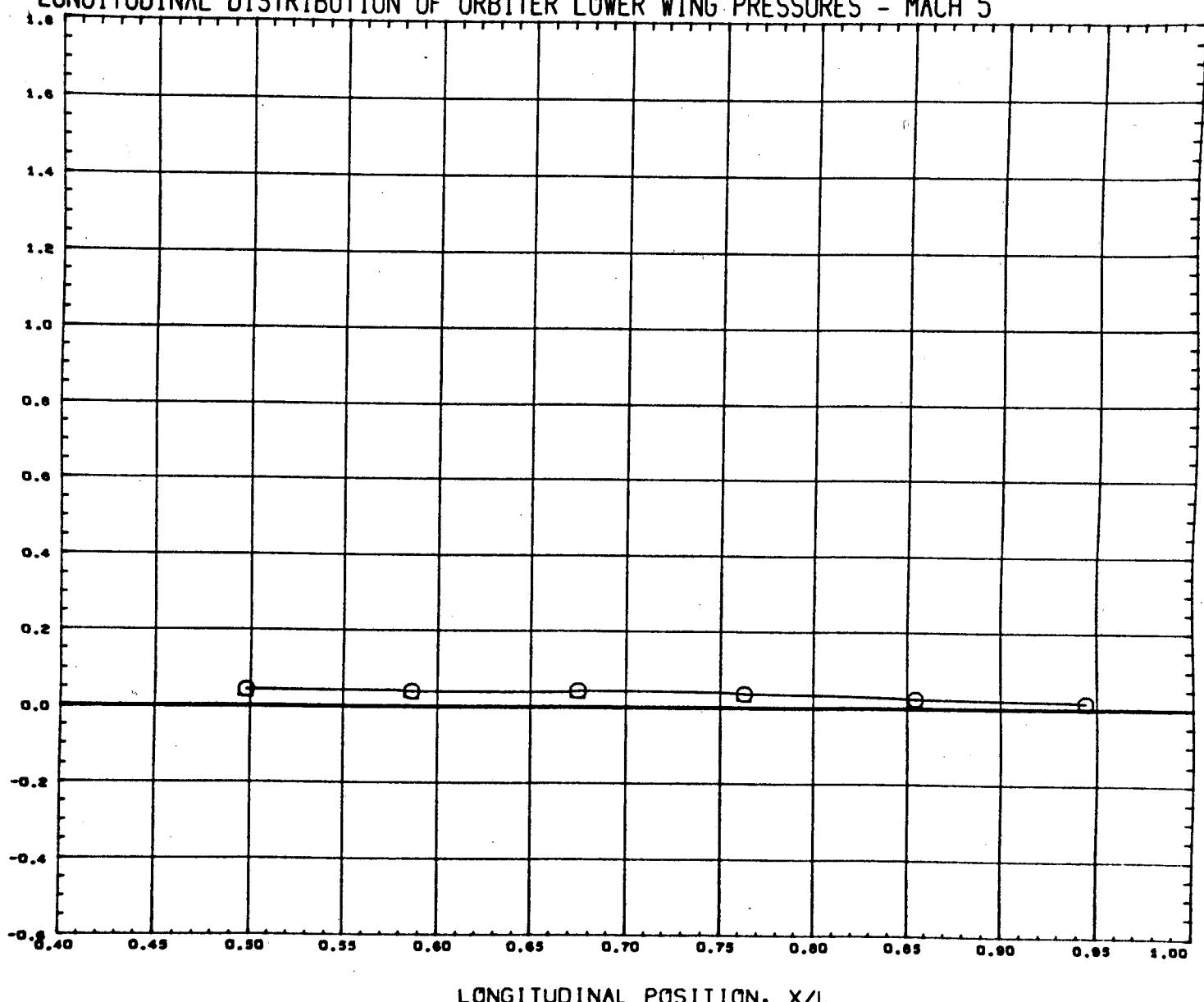
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8624•

PAGE 972

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



LONGITUDINAL POSITION. X/L

SYMBOL DELTAX Y/B DELTAZ
 O 0.520 0.230 0.905

	ALPHAB	MACH	ORBPOW
ALPHAI	9.026	4.970	0.000
BSTPOW	0.000		

REFERENCE FILE

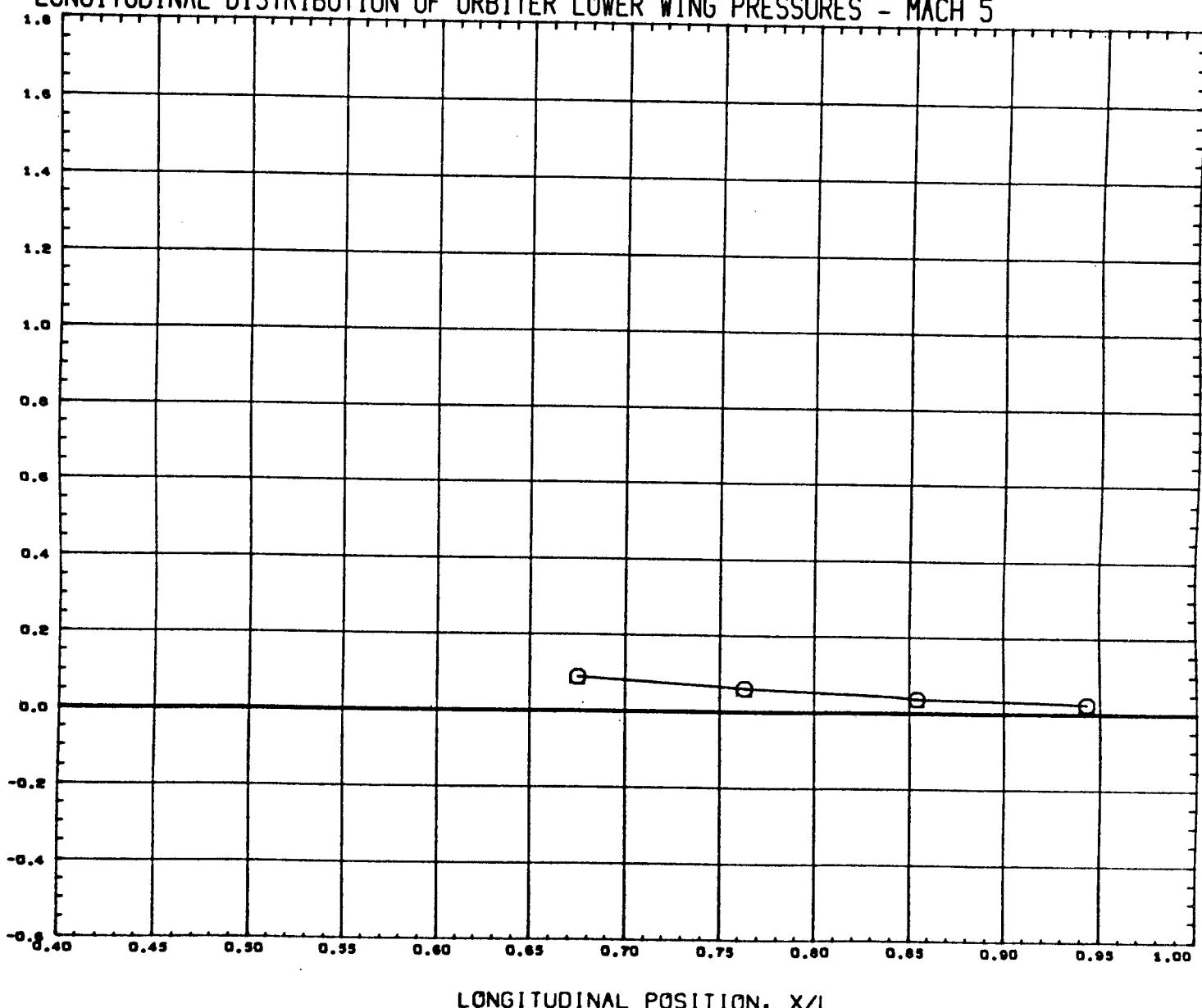
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8624•

PAGE 973

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL DELTAX Y/B DELTAZ

C 0.320 0.399 0.900

PARAMETRIC VALUES		
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ALPHAI	0.000	ORBPOW
BSTPOW	0.000	

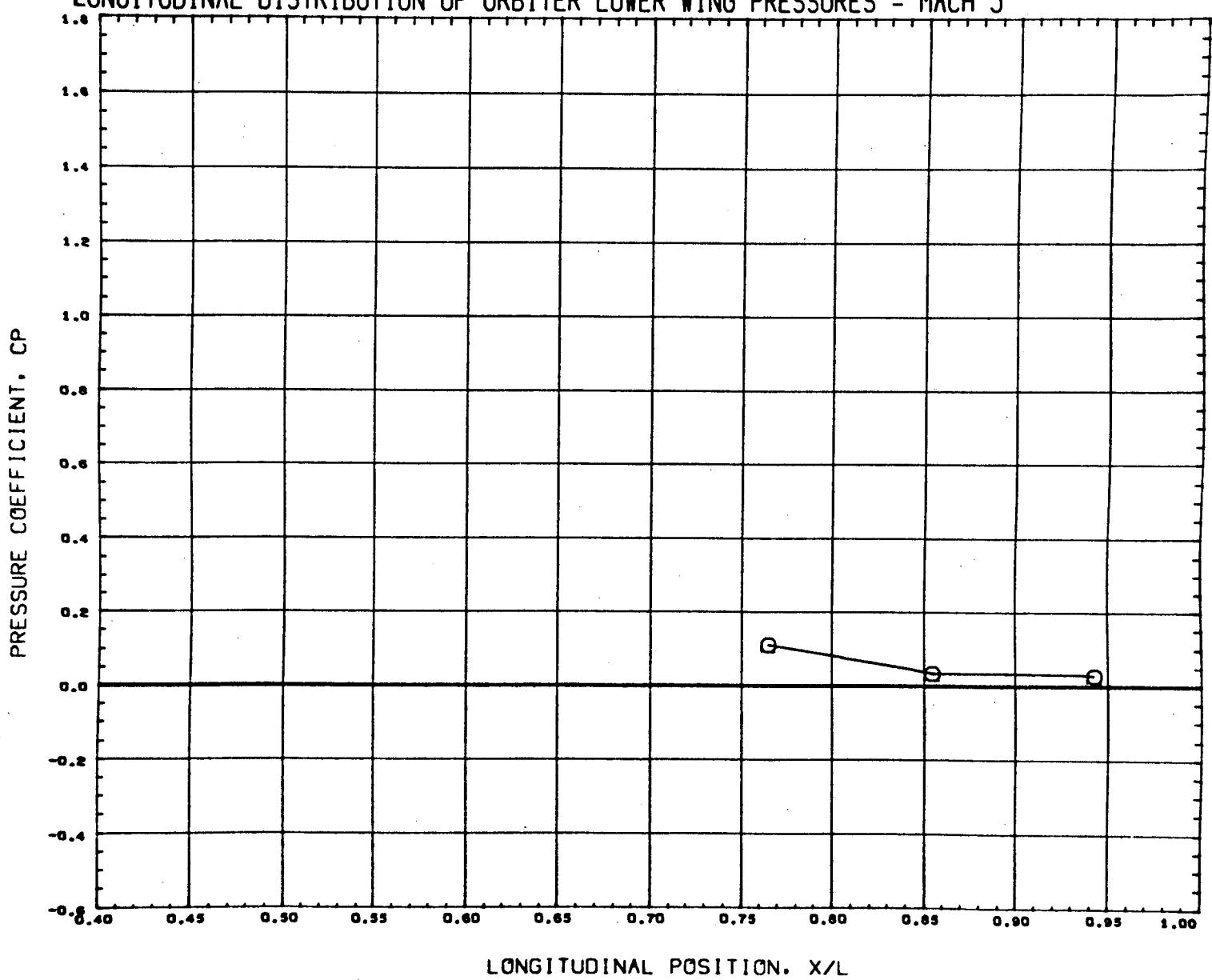
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AEDC VAI163 MDAC ORBITER (LOWER WING)

•HT8624•

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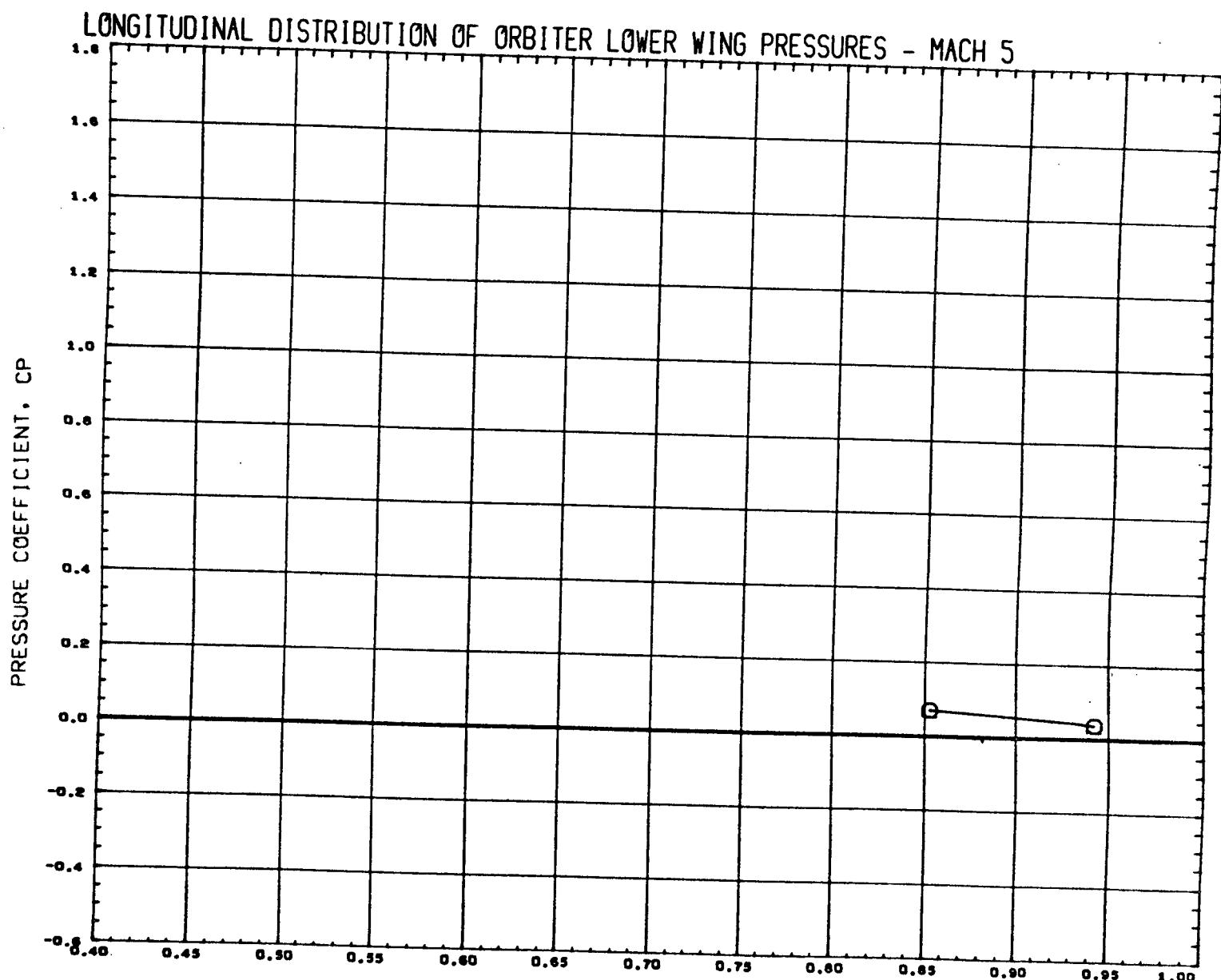
LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



REFERENCE FILE
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8624•

PAGE 975



SYMOL DELTAX Y/B DELTAZ
C 0.520 0.738 0.908

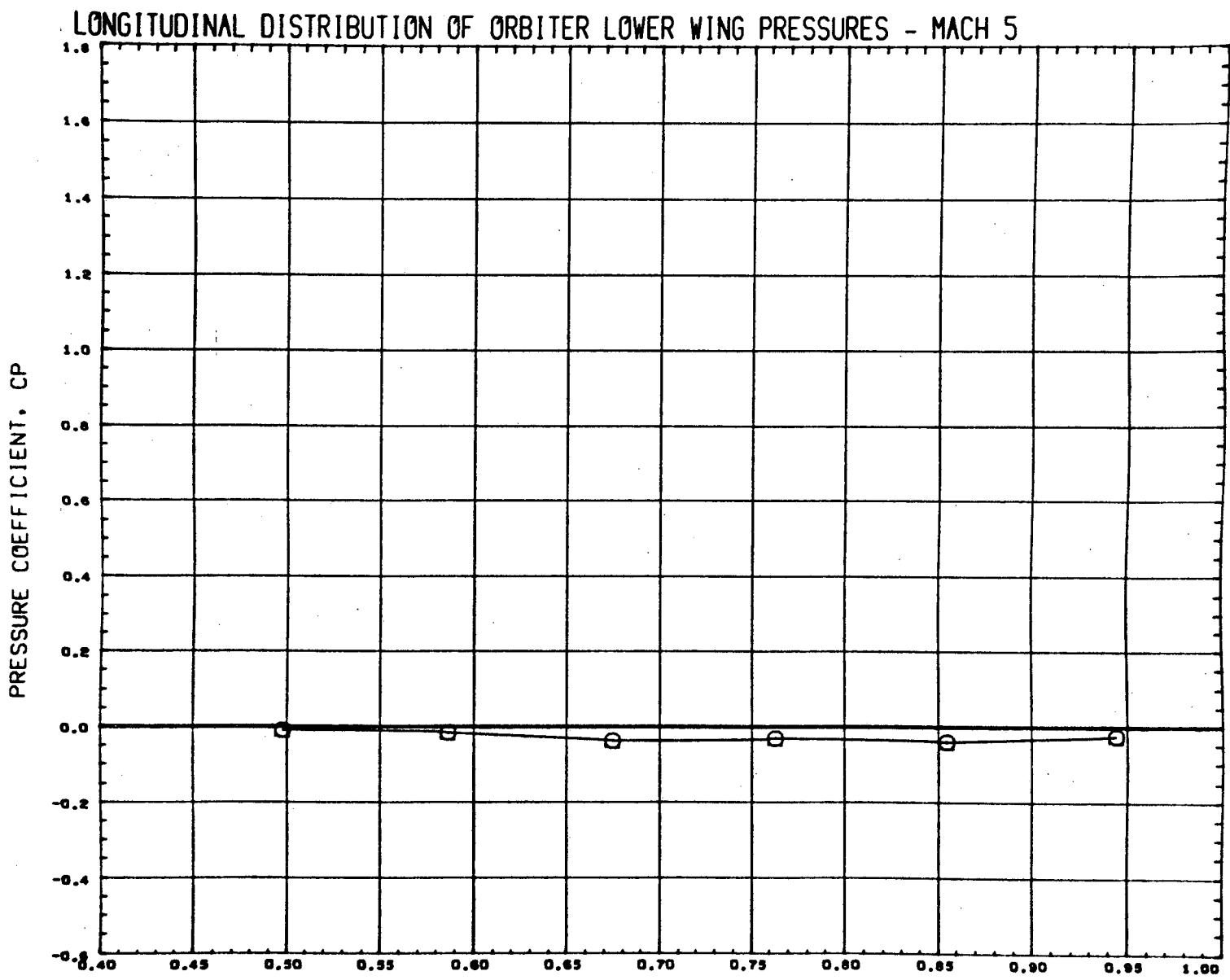
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ALPHAI 0.000 ORBPOW 0.000
BSTPOW

REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8624•

PAGE 976



SYMBOL DELTAX T/B DELTAZ
C 0.103 0.230 0.106

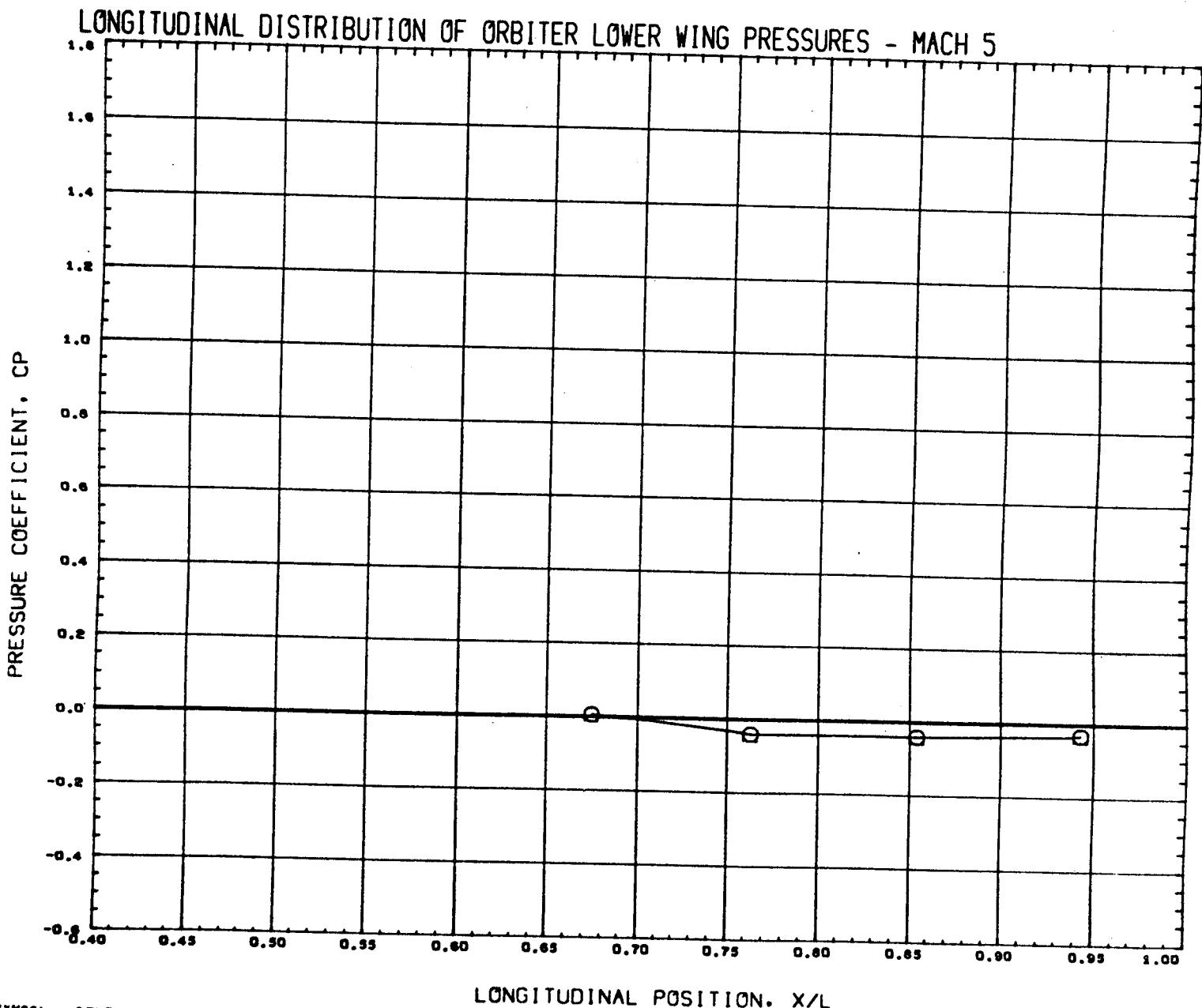
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ALPHAI 0.000 ORBPOW 0.000
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REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8632•

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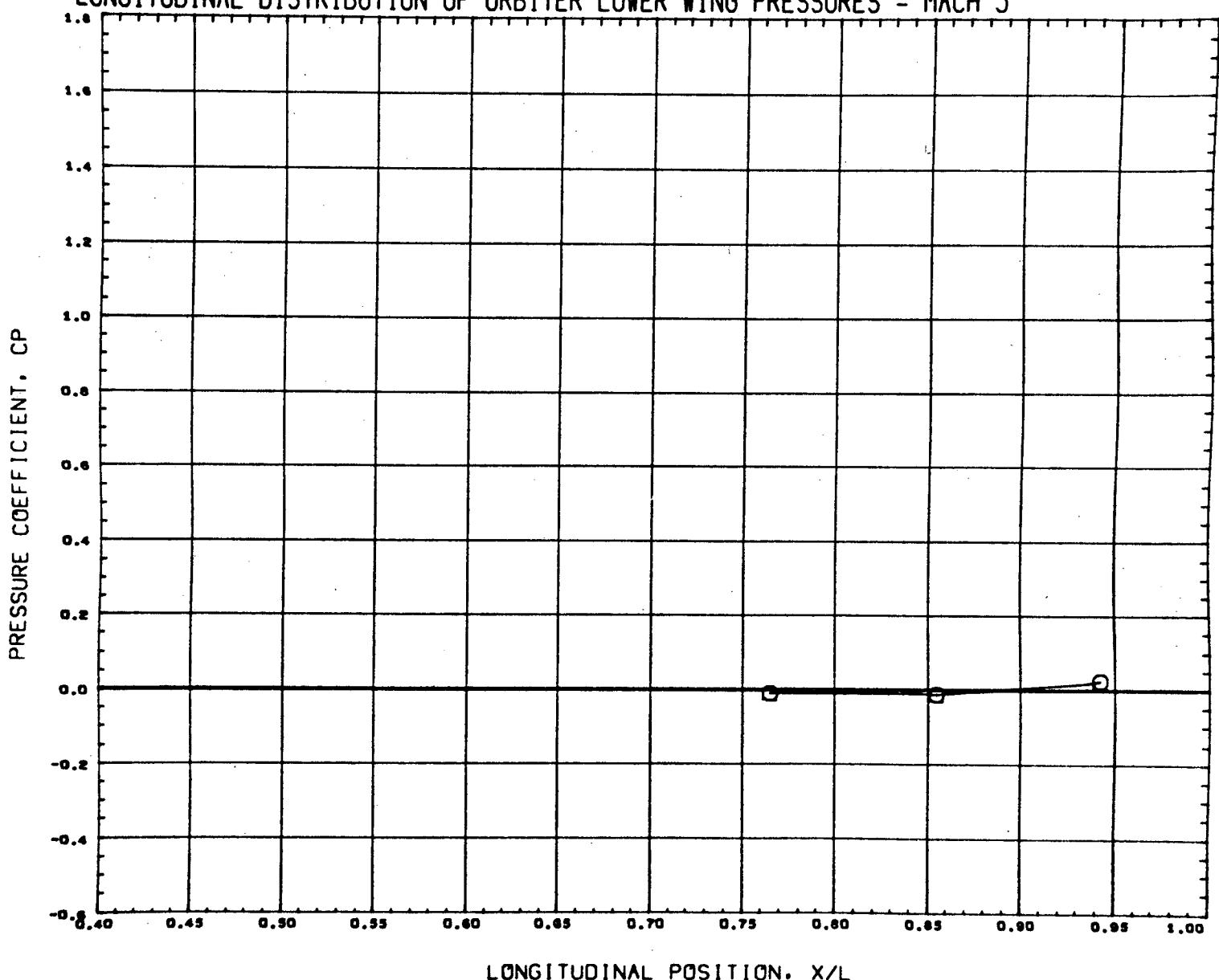
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AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8632•

PAGE 978

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL DELTAX Y/B DELTAZ

○ 0.103 0.568 0.106

PARAMETRIC VALUES

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ALPHAI	= 0.000	ORBPW = 0.000
BSPW	= 0.000	

REFERENCE FILE

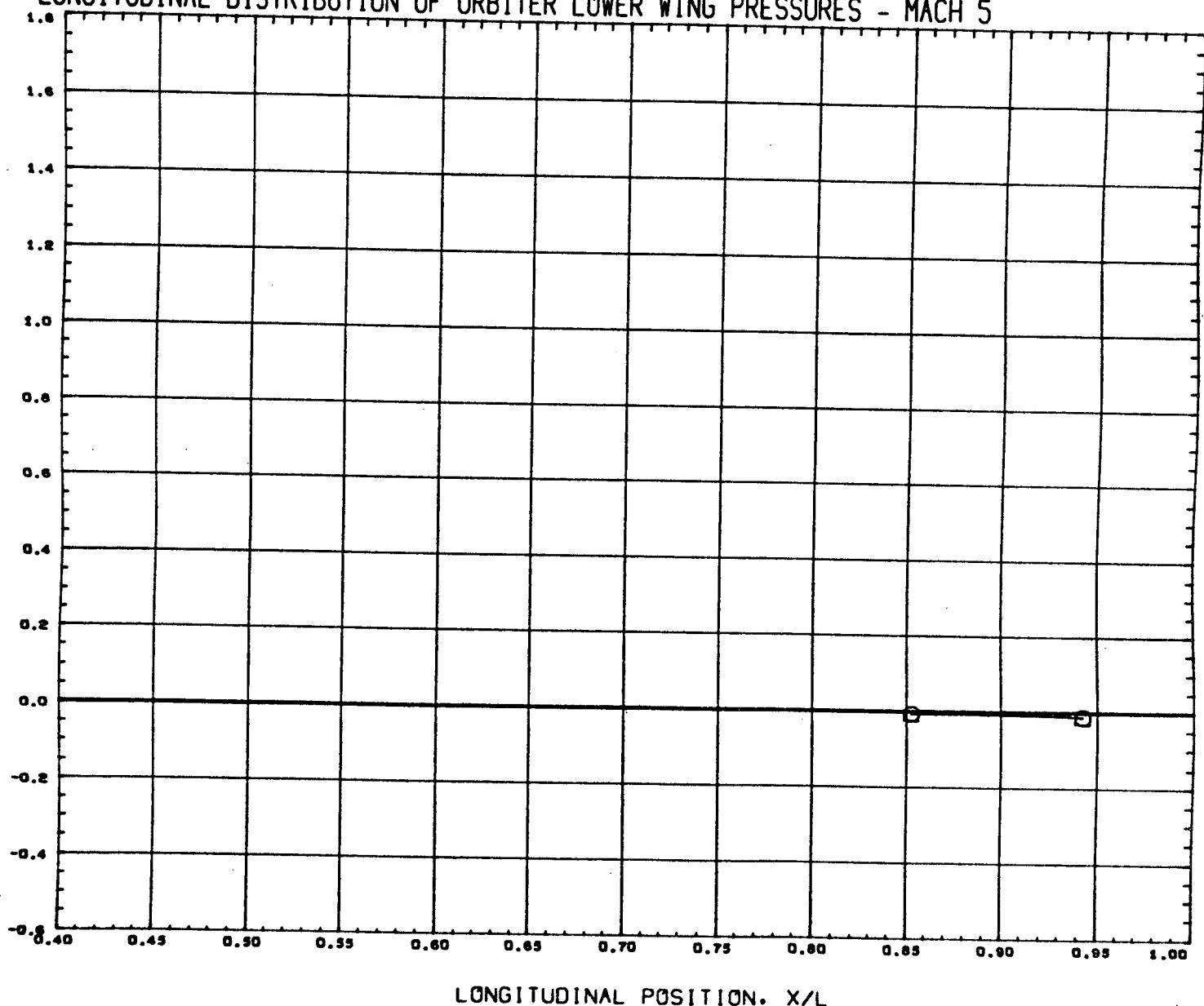
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8632•

PAGE 979

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL DELTAX Y/B DELTAZ

□ 0.103 0.739 0.106

	ALPHAB	MACH
ALPHAB	- 4.940	4.970
ALPHAI	0.000	ORBPOW
BSTPOW	0.000	

REFERENCE FILE

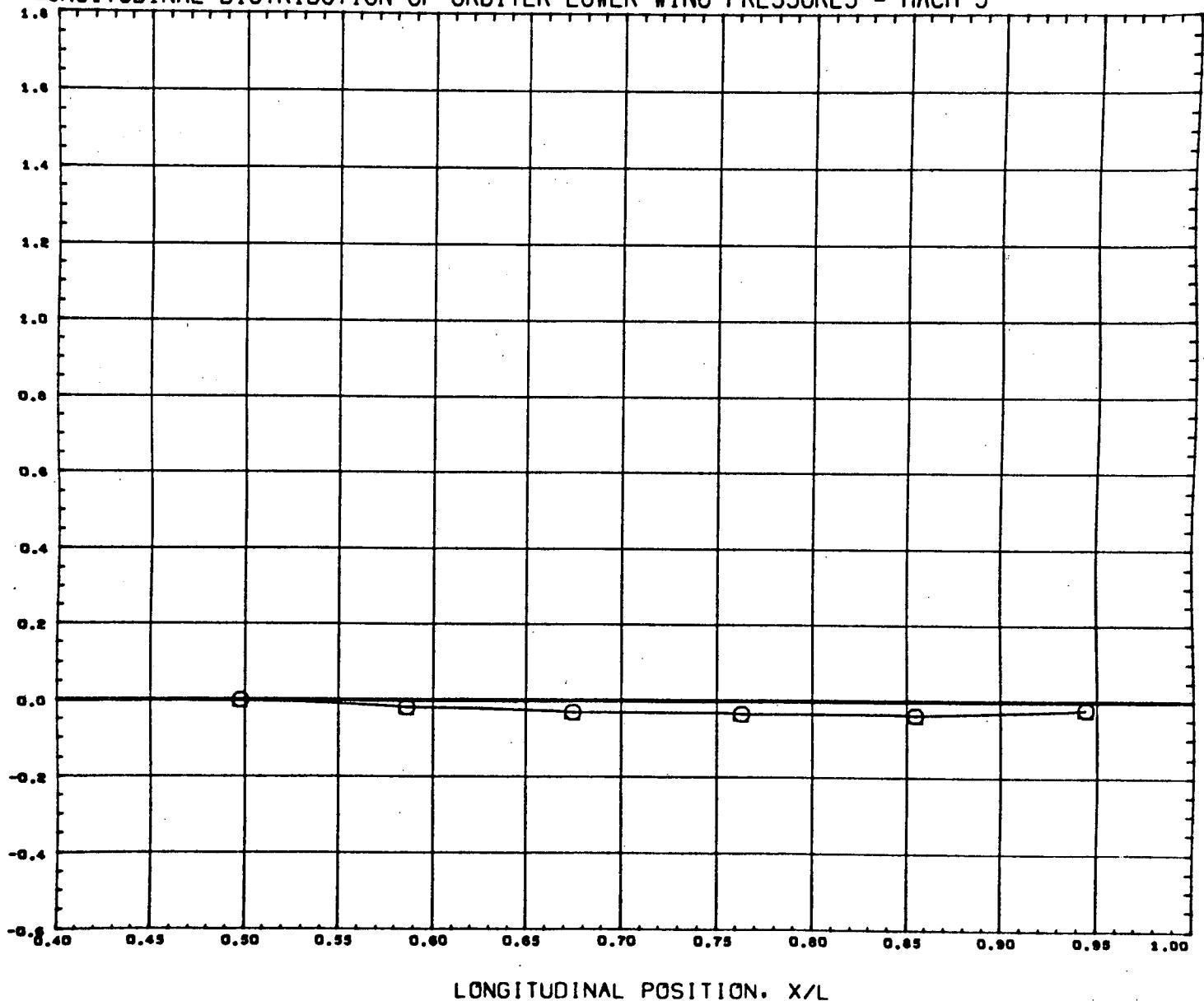
AEDC VAI163 MDAC ORBITER (LOWER WING)

•HT8632•

PAGE 980

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION. X/L

SYMBOL	DELTA X	T/B	DELTA Z
○	0.103	0.230	0.106

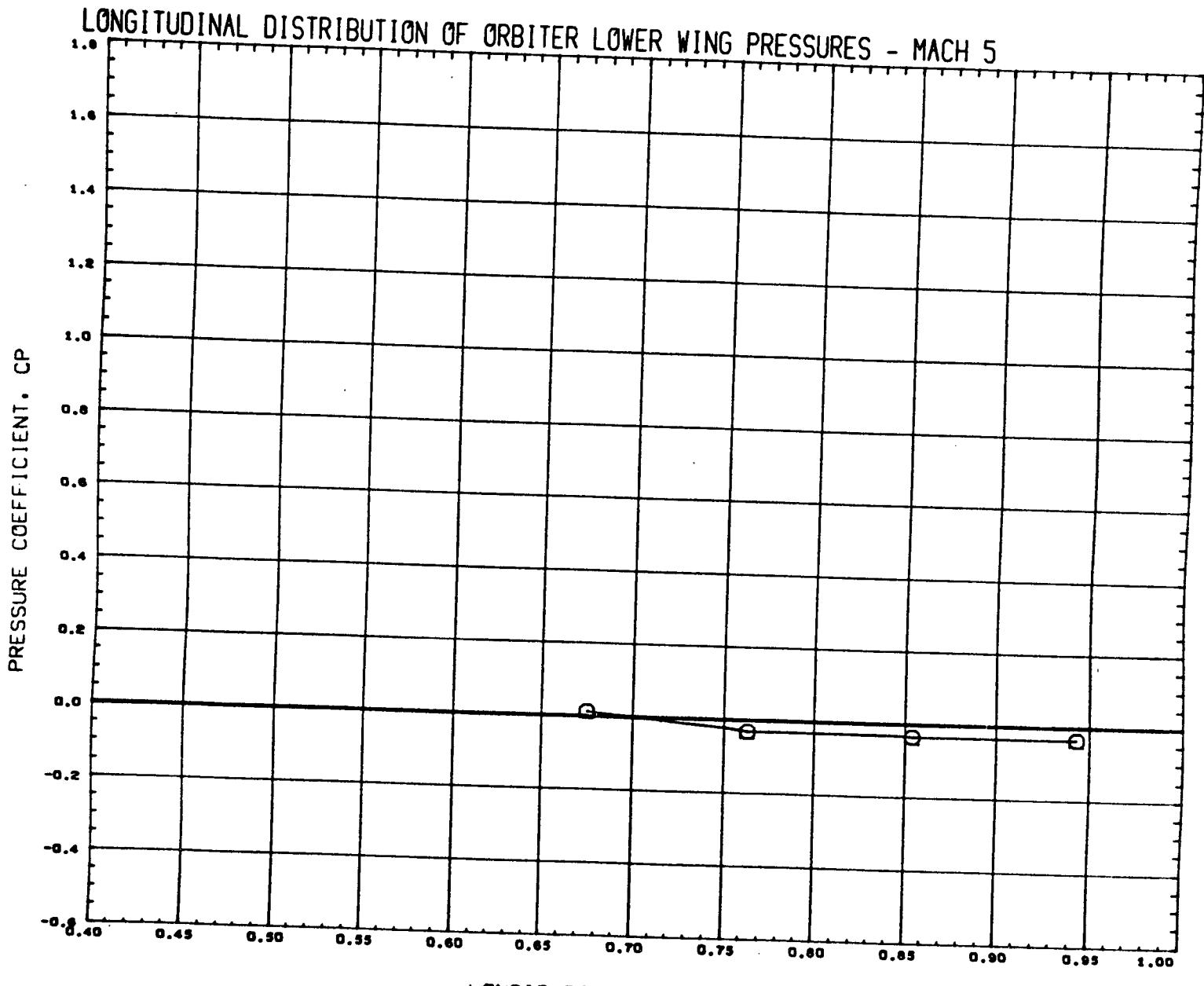
PARAMETRIC VALUES			
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ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8633•

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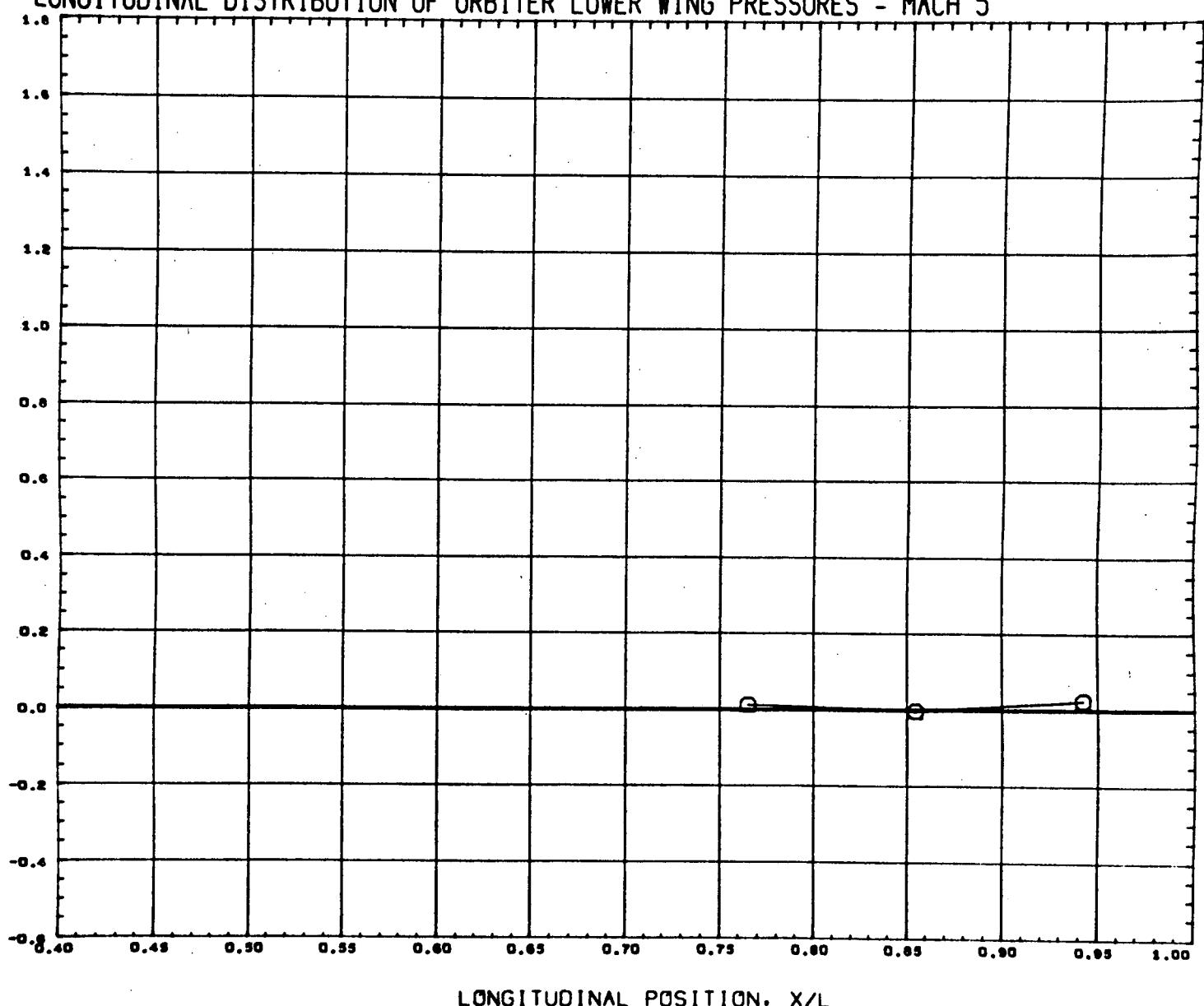
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 AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8633•

PAGE 982

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION, X/L

SYMBOL DELTAX T/B DELTAZ
C 0.103 0.969 0.106

PARAMETRIC VALUES			
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ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

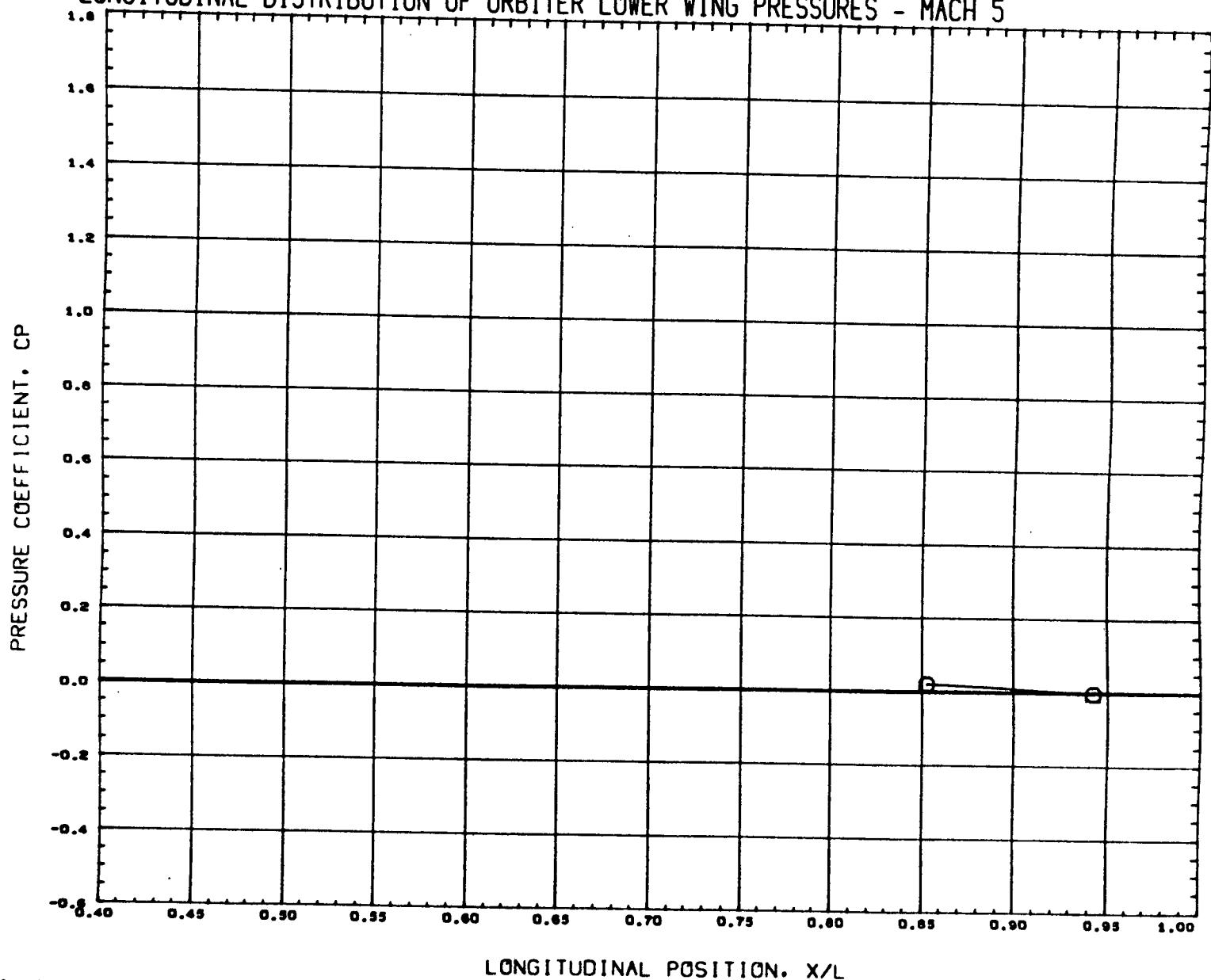
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AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8633•

PAGE 983

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL DELTAX T/B DELTAZ

C 0.103 0.739 0.106

PARAMETRIC VALUES

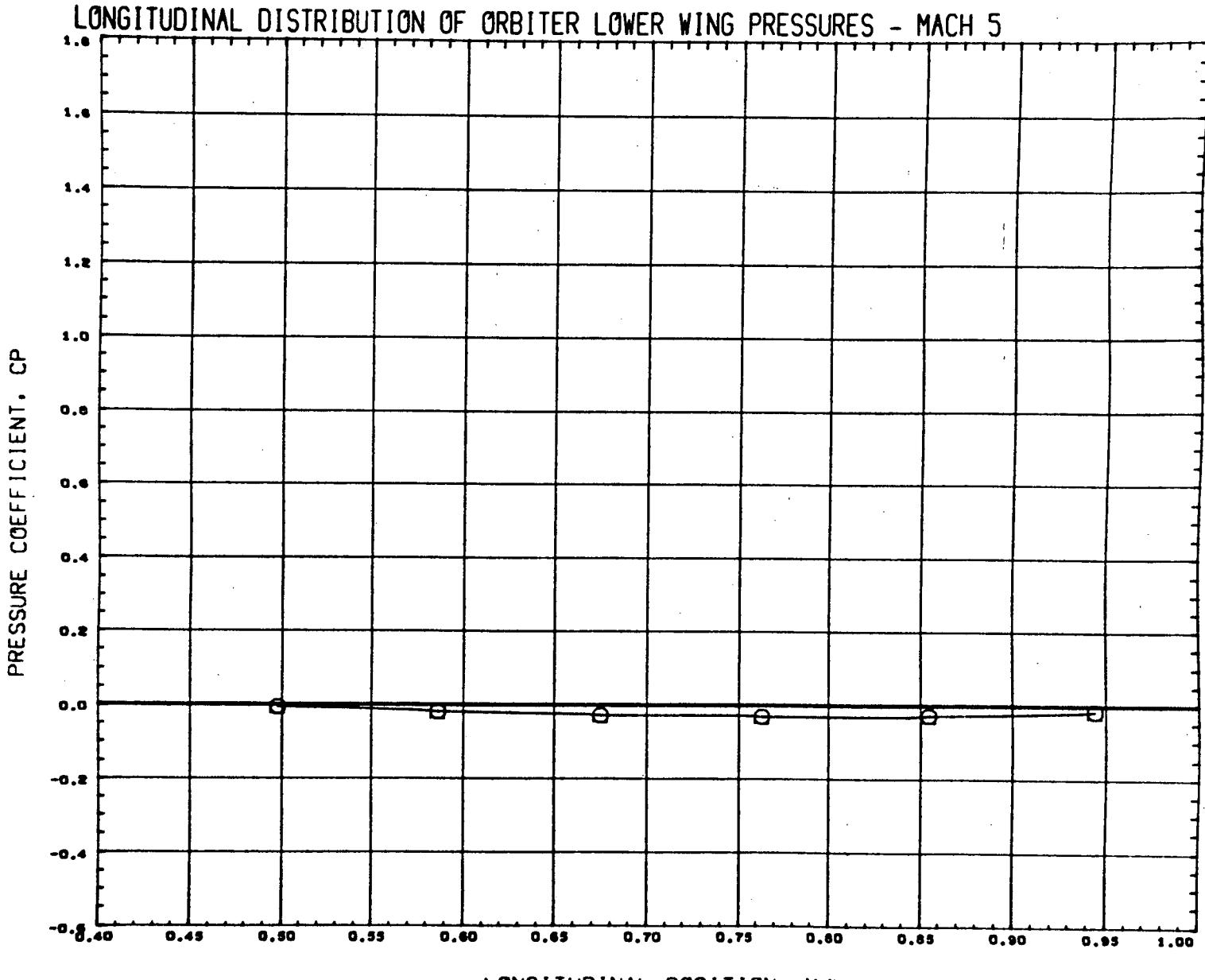
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ALPHAI	0.000	ORBPOW	0.000
BSPW	0.000		

REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8633•

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AEDC VA1163 MDAC ORBITER (LOWER WING)

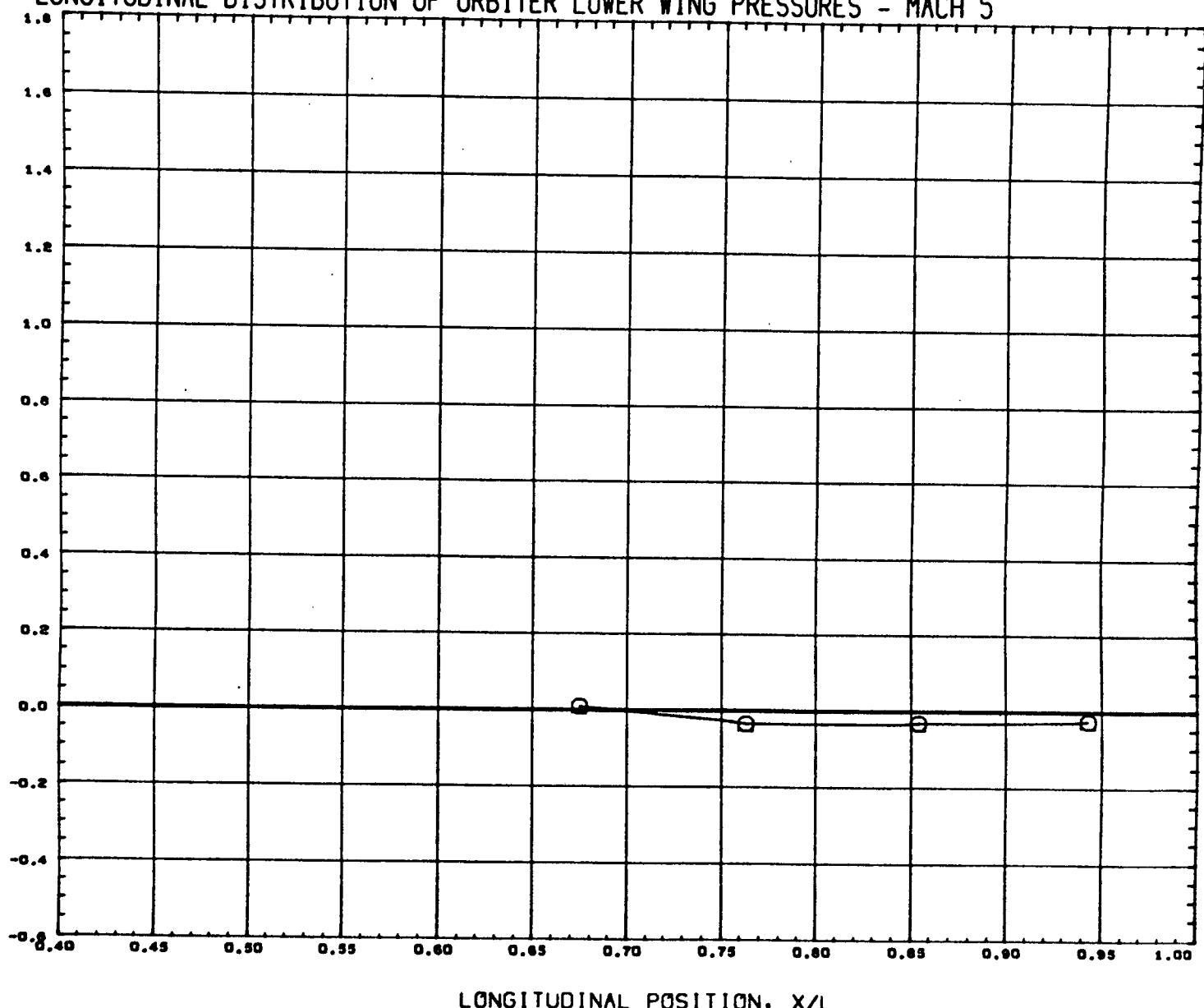
•HT8634•

PAGE 985

C.10

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



LONGITUDINAL POSITION. X/L

SYMBOL DELTAX Y/B DELTAZ
□ 0.103 0.399 0.106

	ALPHAB	MACH
ALPHAI	4.995	4.970
BSTPOW	0.000	0.000

REFERENCE FILE

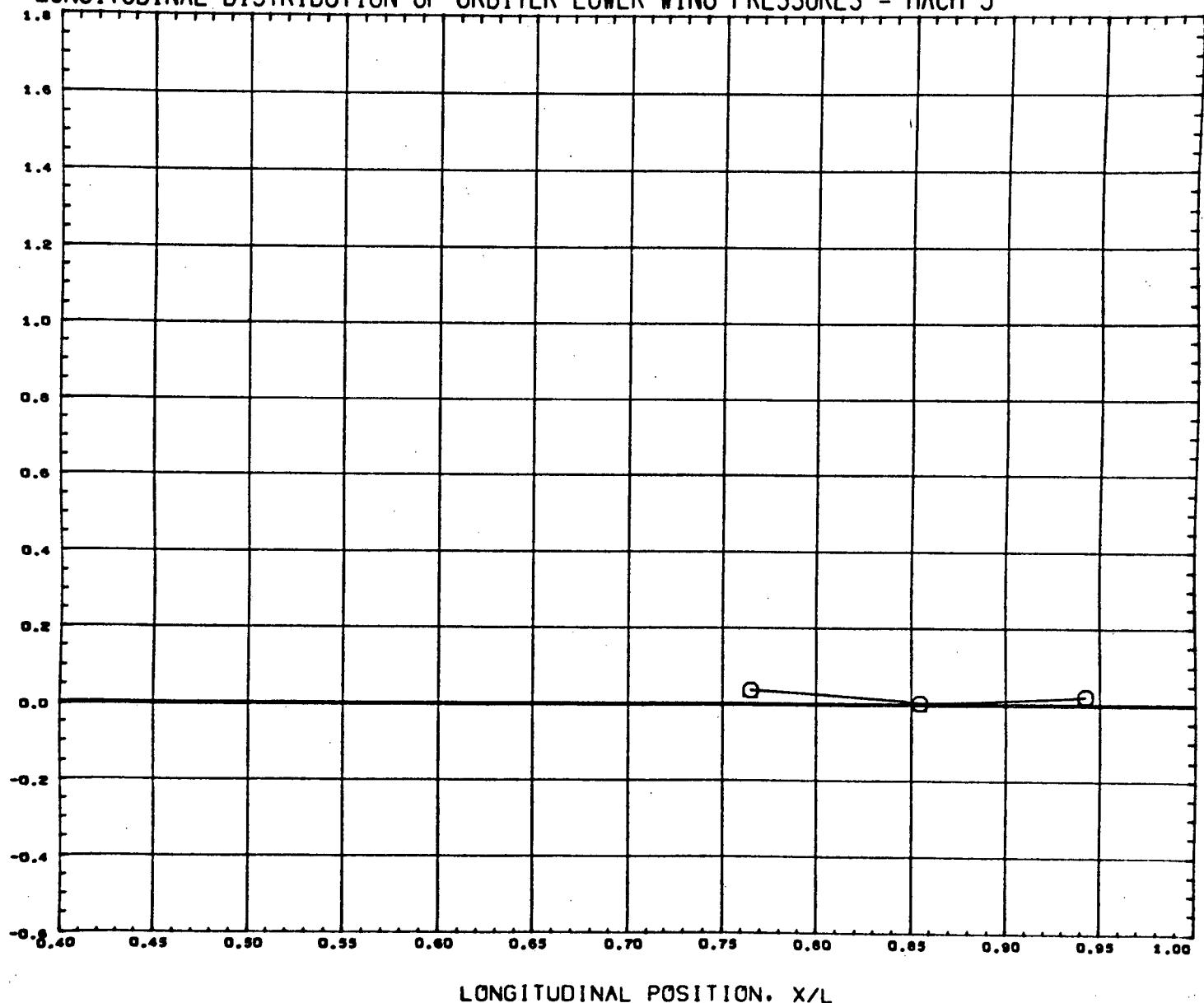
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8634•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION. X/L

SYMBOL DELTAX T/B DELTAZ
 0.103 0.569 0.106

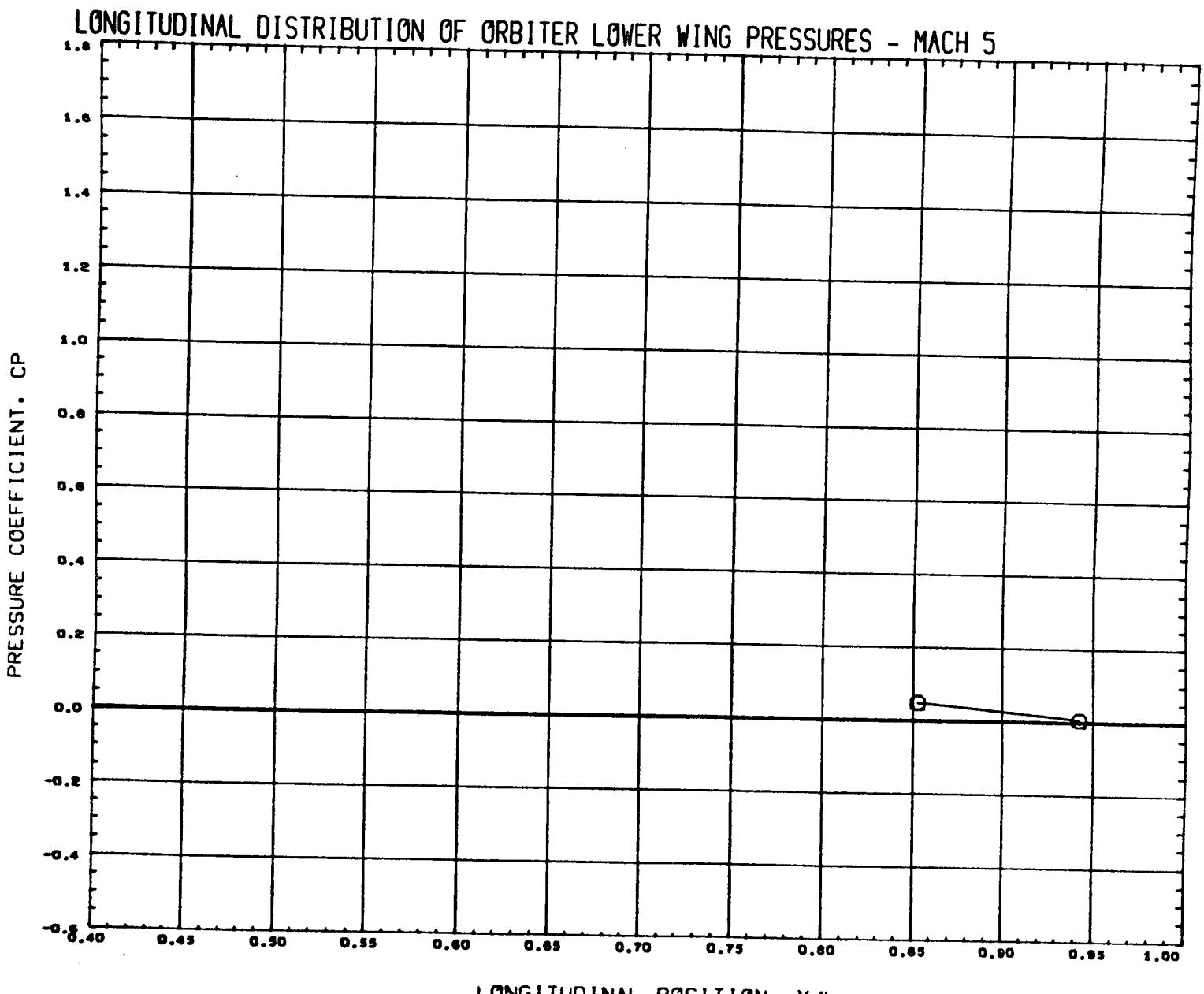
PARAMETRIC VALUES			
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ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8634•

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SYMBOL DELTAX T/B DELTAZ
C 0.103 0.736 0.106

PARAMETRIC VALUES
ALPHAB 4.995 MACH 4.970
ALPHAI 0.000 ORBPOW 0.000
BSPW 0.000

REFERENCE FILE

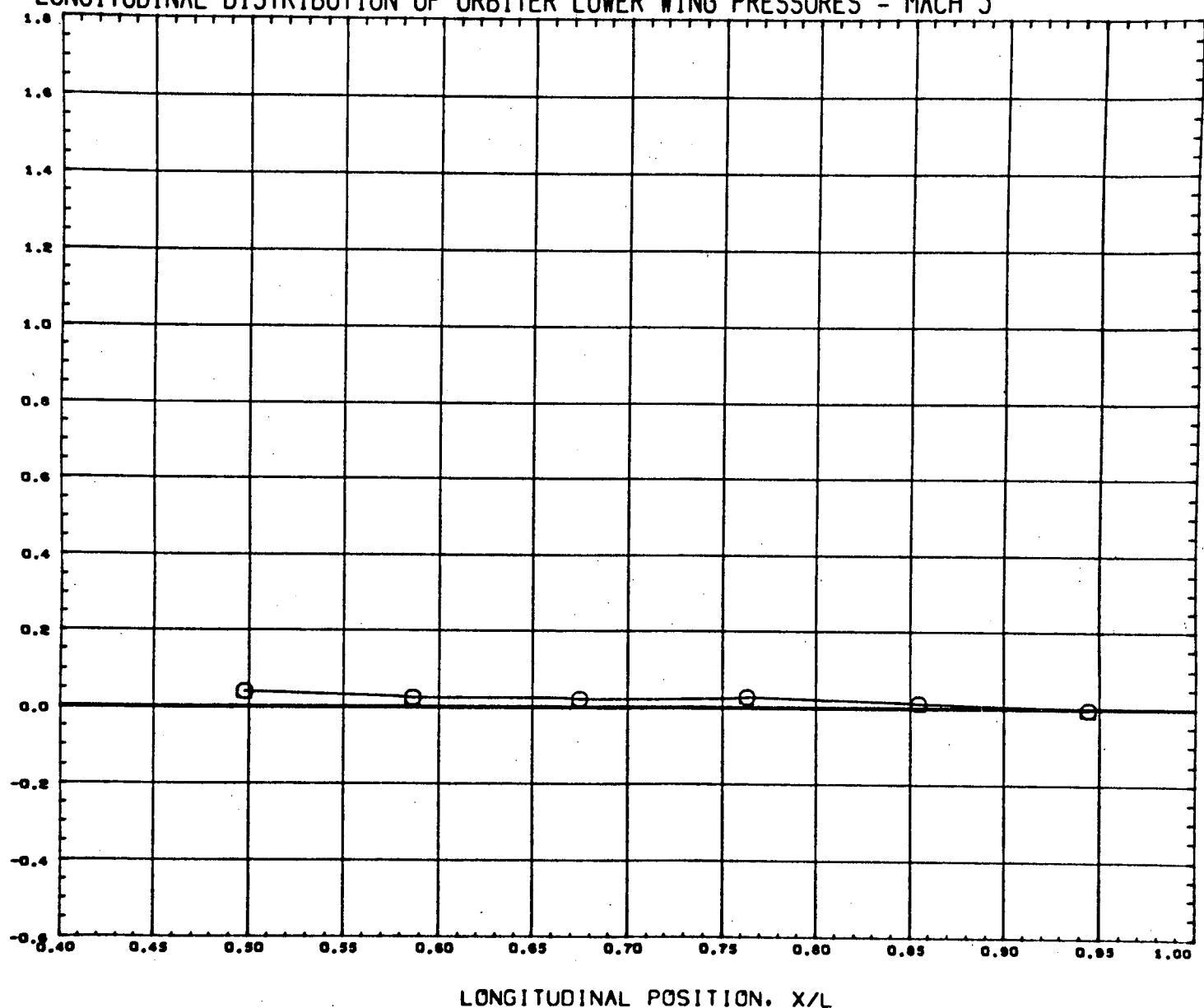
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8634•

PAGE 988

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



LONGITUDINAL POSITION, X/L

SYMBOL DELTAX Y/B DELTAZ
 C 0.103 0.250 0.191

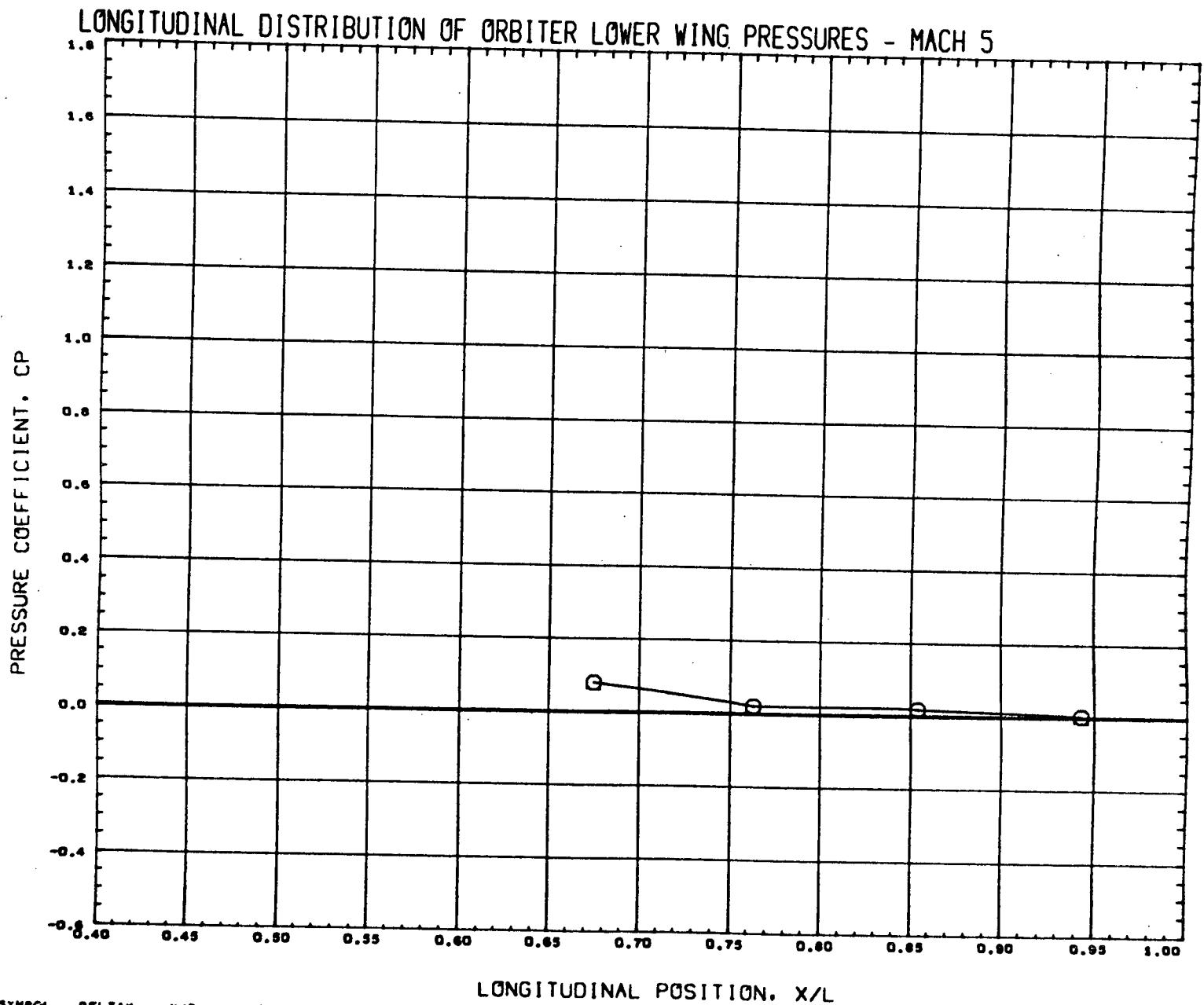
PARAMETRIC VALUES			
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ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8634•

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PARAMETRIC VALUES

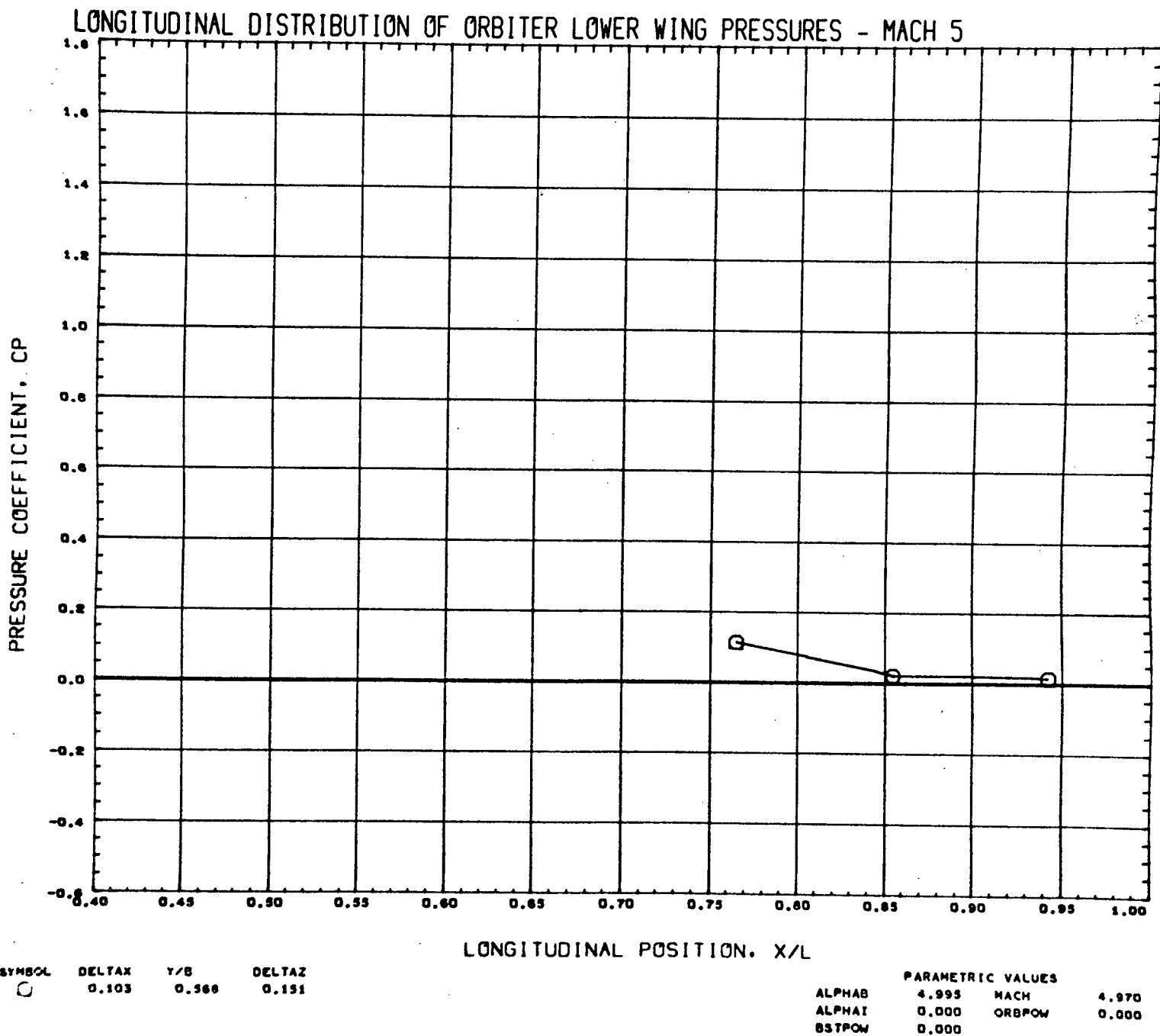
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ALPHAI	4.995	4.970
BSTPOW	0.000	0.000
	0.000	

REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8634•

PAGE 990



REFERENCE FILE

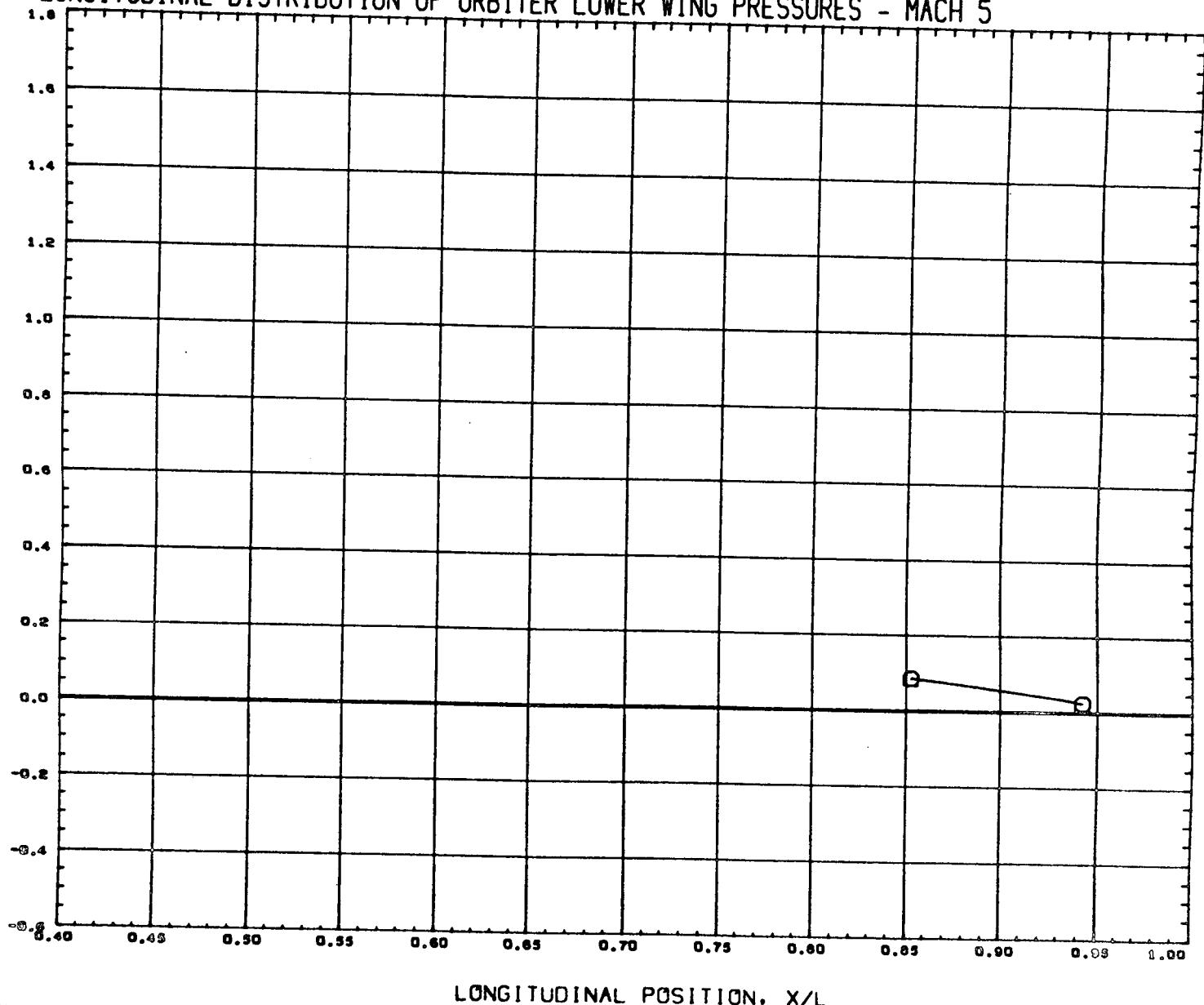
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8634•

PAGE 991

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL DELTAX T/B DELTAZ

○ 0.103 0.736 0.151

LONGITUDINAL POSITION, X/L

PARAMETRIC VALUES

	ALPHAB	MACH
ALPHAI	4.995	4.970
BSTPOW	0.000	0.000

REFERENCE FILE

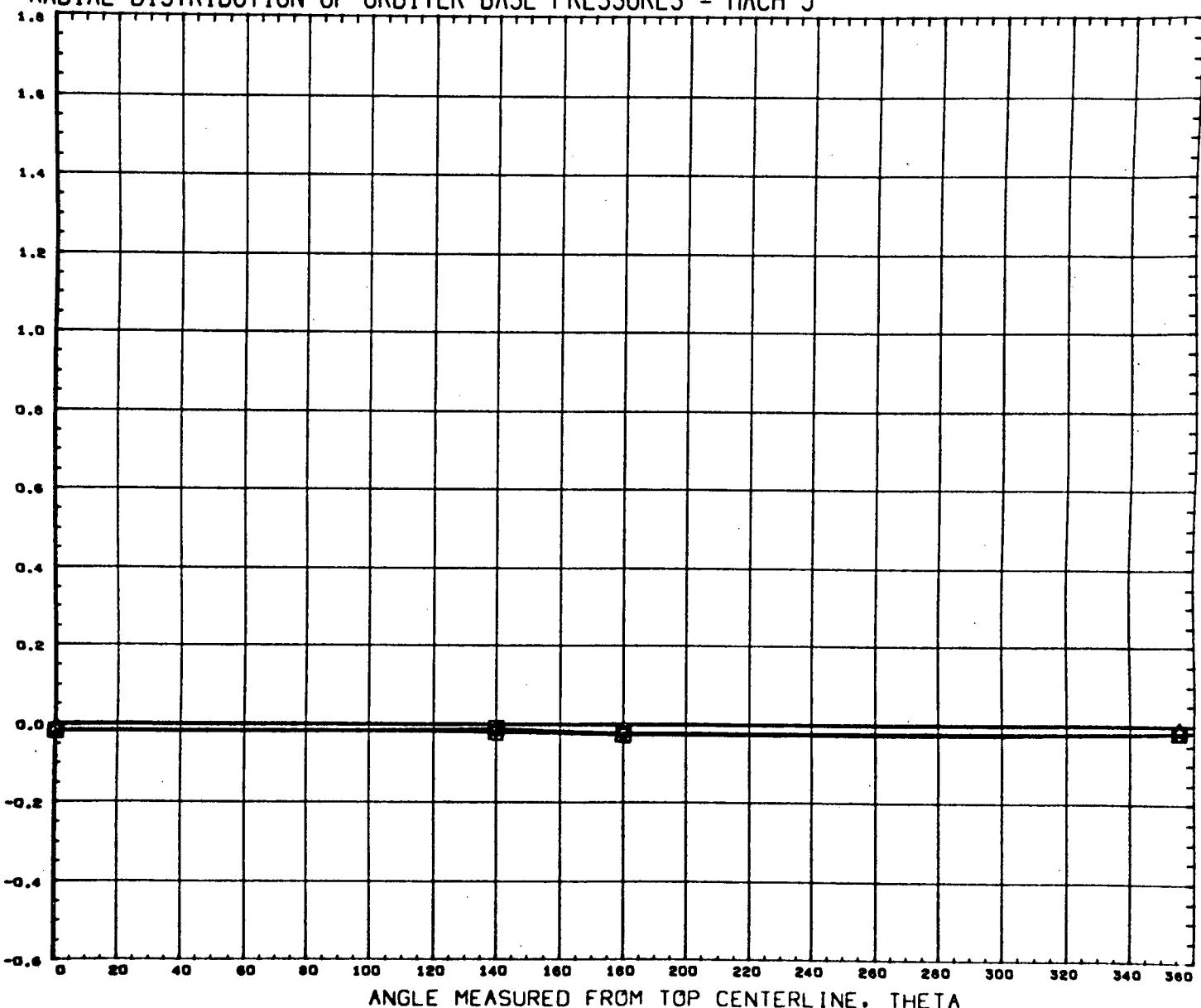
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8634•

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RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



SYMBOL	DELTA X	X/L	DELTA Z
Δ	0.041	1.000	0.114
\diamond	0.103		
\diamond	0.165		
\square	0.350		

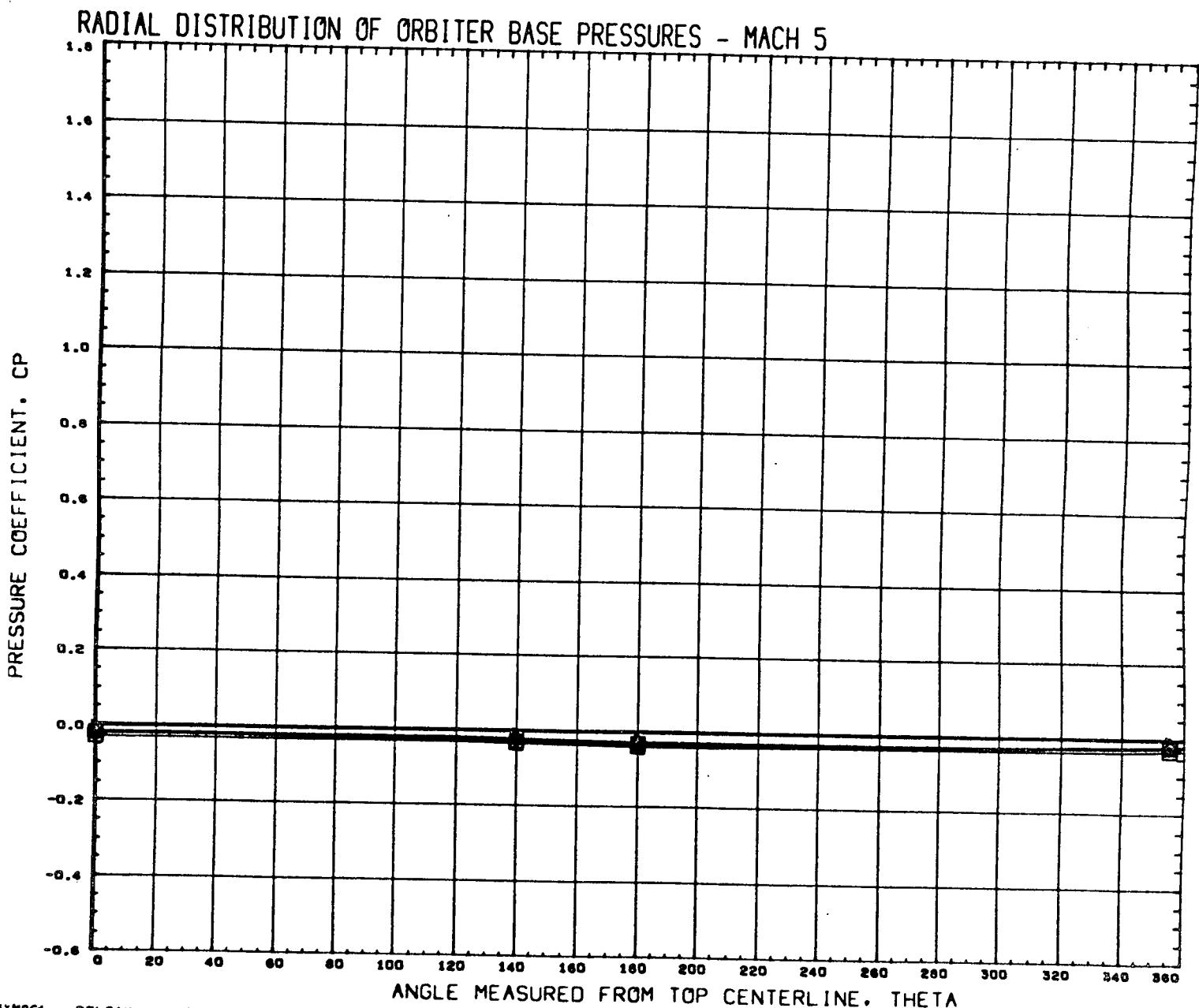
PARAMETRIC VALUES		
ALPHAB	- 9.909	MACH 4.940
ALPHAI	0.000	ORBPOW 0.000
BSTPOW	0.000	

REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

• IT8511 •

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SYMBOL	DELTA X	X/L	DELTA Z
-	0.393	1.000	0.120
-	0.143		
-	0.020		
-	0.103		
-	0.227		
-	0.350		

REFERENCE FILE

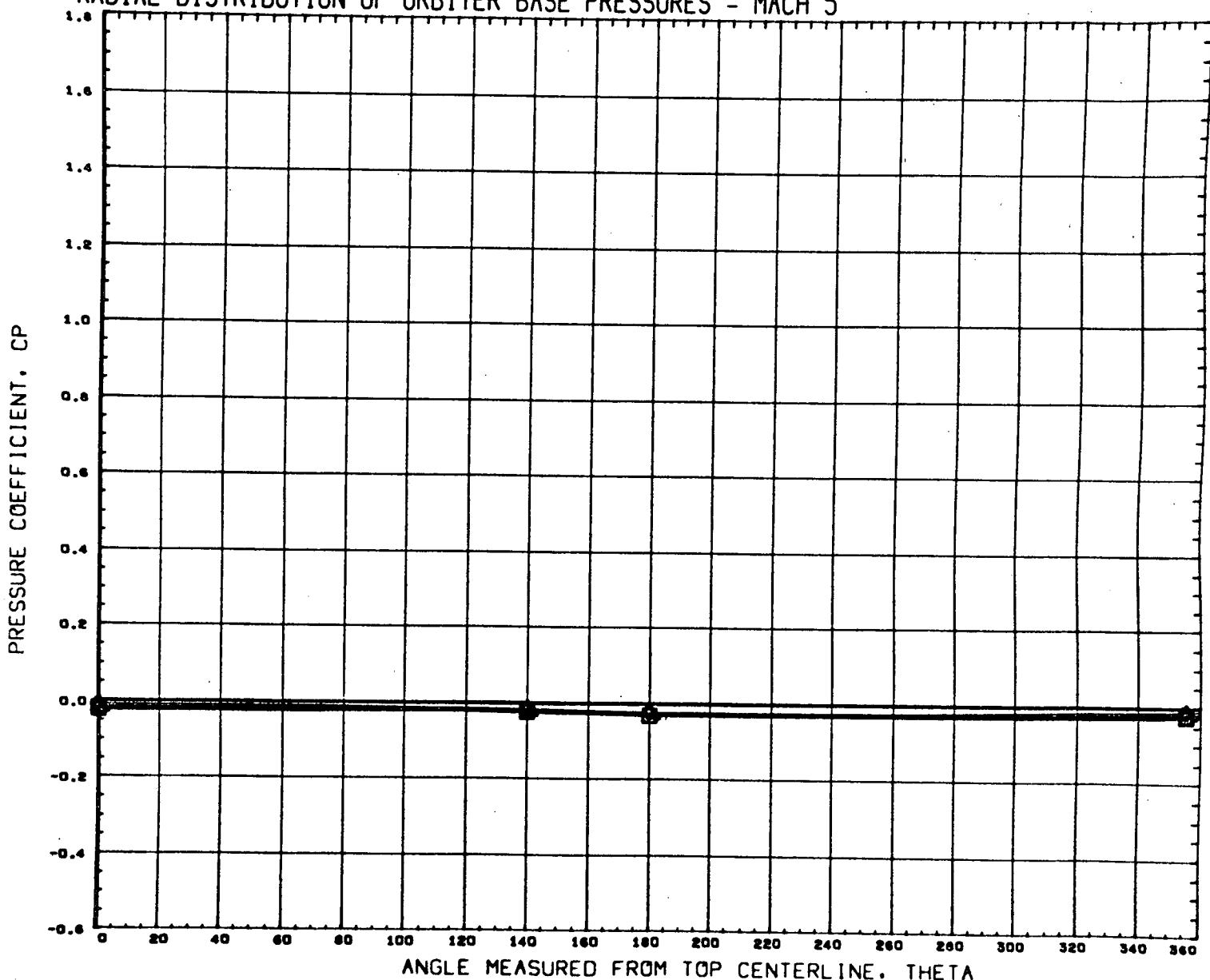
AEDC VA1163 MDAC ORBITER (BASE)

PARAMETRIC VALUES			
ALPHAB	9.909	MACH	4.940
ALPHAT	0.000	ORBPOW	0.000
BSTPOW	0.000		

• IT8511 •

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RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

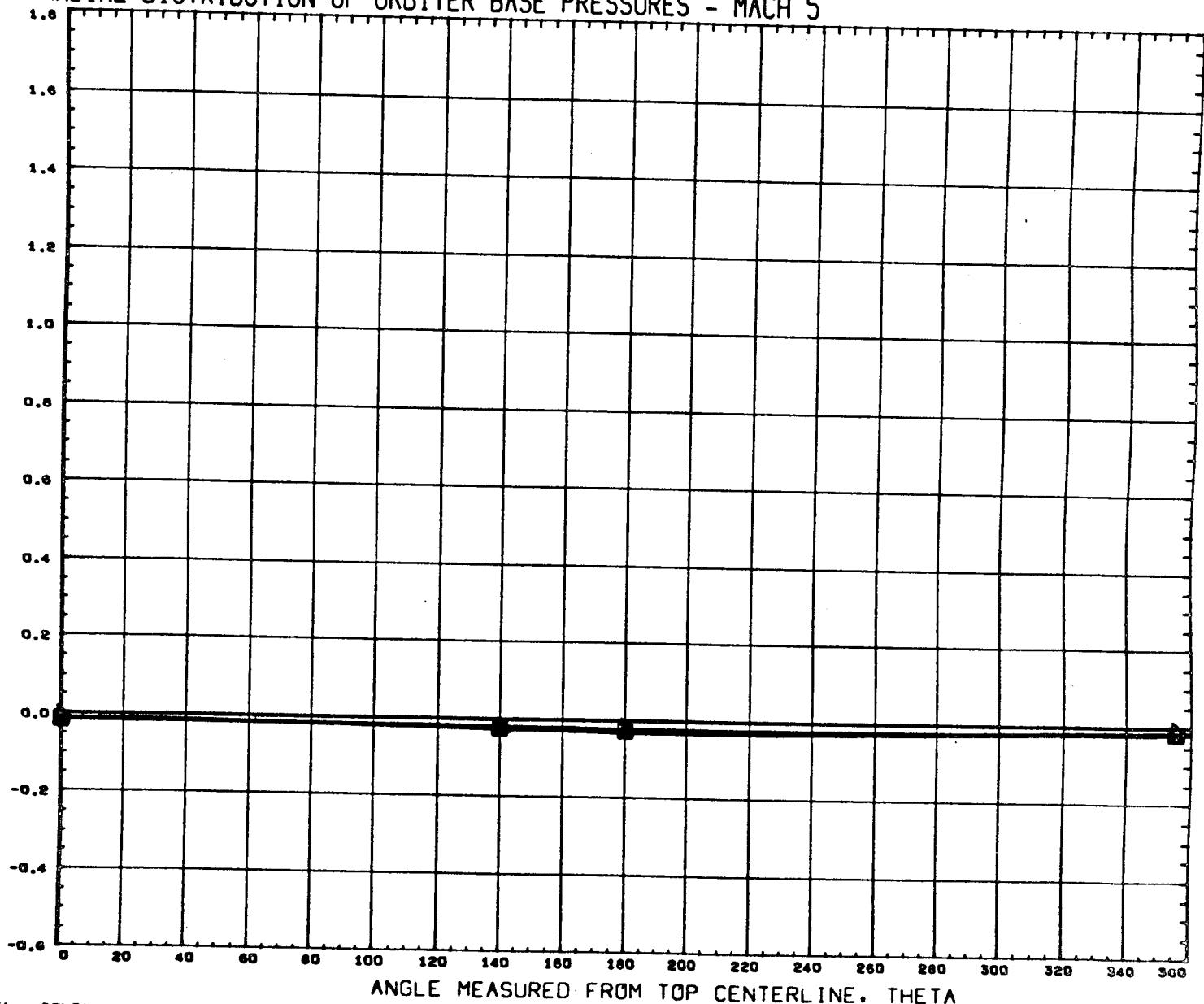


SYMBOL DELTAX X/L DELTAZ
 - 0.390 1.000 0.151
 - 0.143
 - 0.020
 0.103
 0.227
 0.350 REFERENCE FILE

PARAMETRIC VALUES				
ALPHAB	-	9.909	MACH	4.940
ALPHAI		0.000	ORBPOW	0.000
BSTPOW		0.000		

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



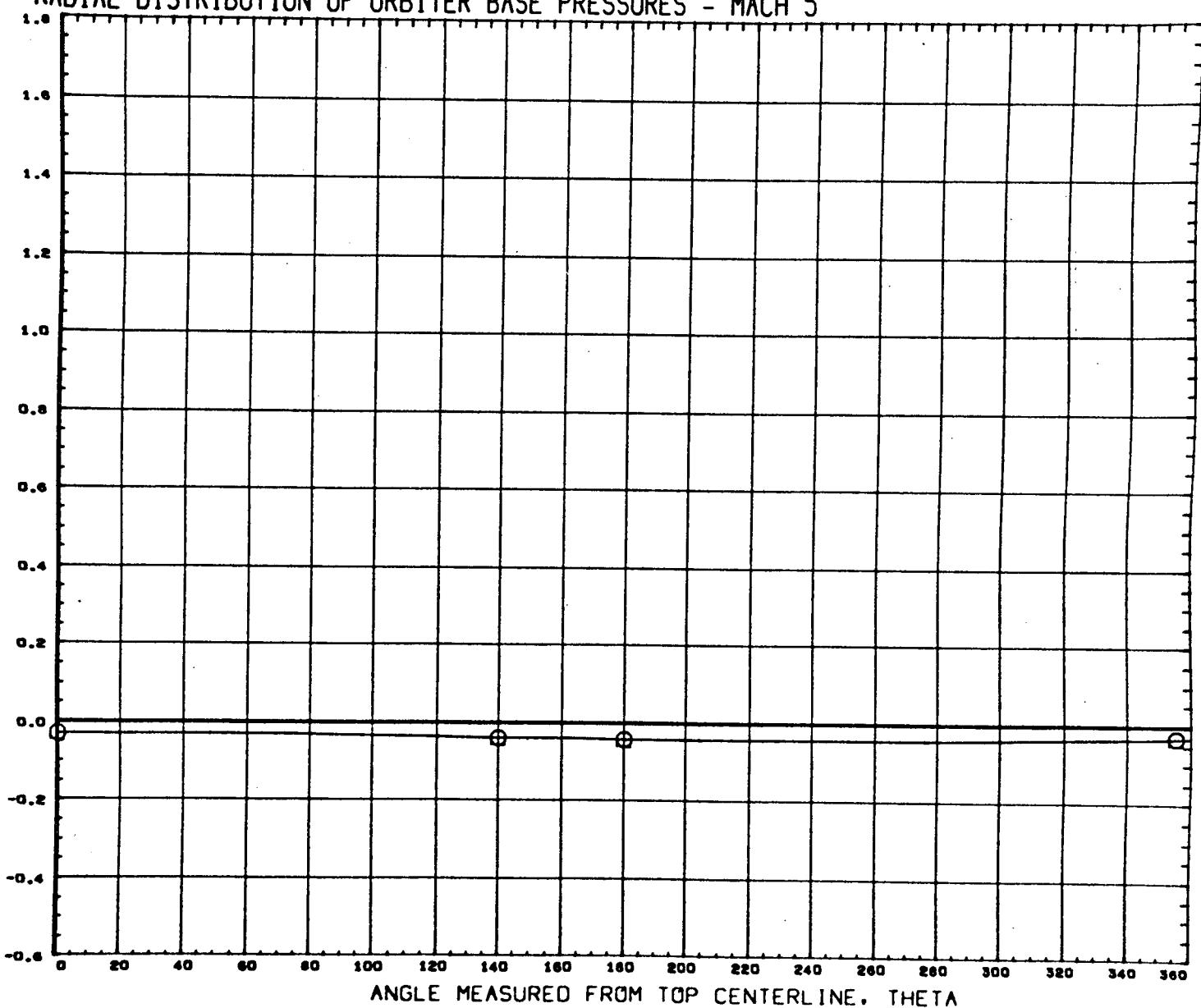
SYMBOL DELTAX X/L DELTAZ
 - 0.390 1.000 0.226
 - 0.143
 - 0.020
 0.103
 0.227
 0.390 REFERENCE FILE

ANGLE MEASURED FROM TOP CENTERLINE. THETA

PARAMETRIC VALUES				
ALPHAB	-	9.909	MACH	4.940
ALPHAI		0.000	ORBPON	0.000
BSTPON		0.000		

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



SYMBOL DELTAX X/L DELTAZ

○ 0.929 1.000 0.909

PARAMETRIC VALUES				
ALPHAB	-	9.909	MACH	4.940
ALPHAI		0.000	ORBPOW	0.000
BSTPOW		0.000		

REFERENCE FILE

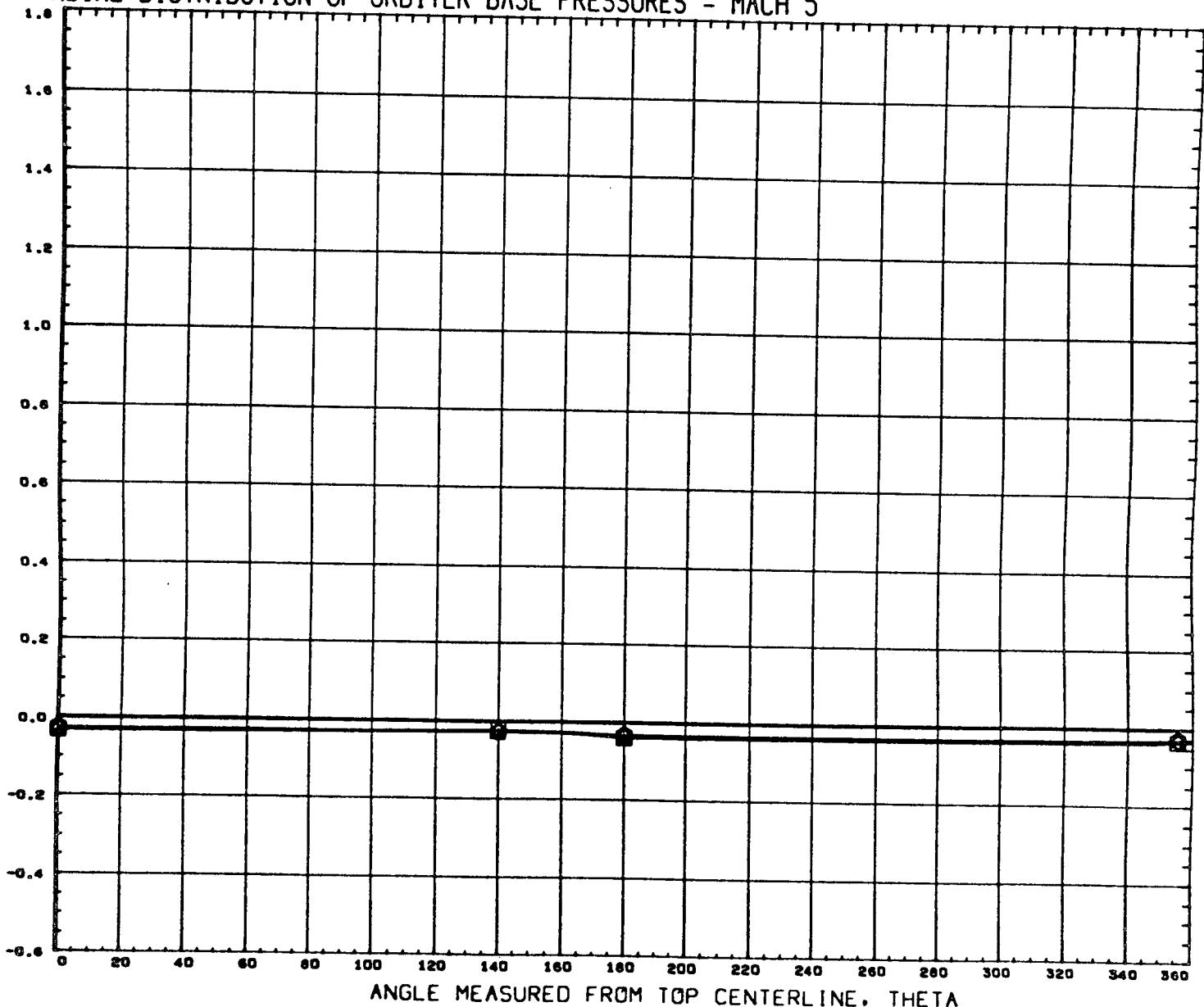
AEDC VA1163 MDAC ORBITER (BASE)

•IT8511•

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RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL DELTAX X/L DELTAZ

- 0.041 1.000 0.114
- △ 0.103
- ◊ 0.165
- 0.390

PARAMETRIC VALUES

	ALPHAB	MACH	ORBPOW
ALPHAT	4.886	4.940	0.000
BSTPOW	0.000		

REFERENCE FILE

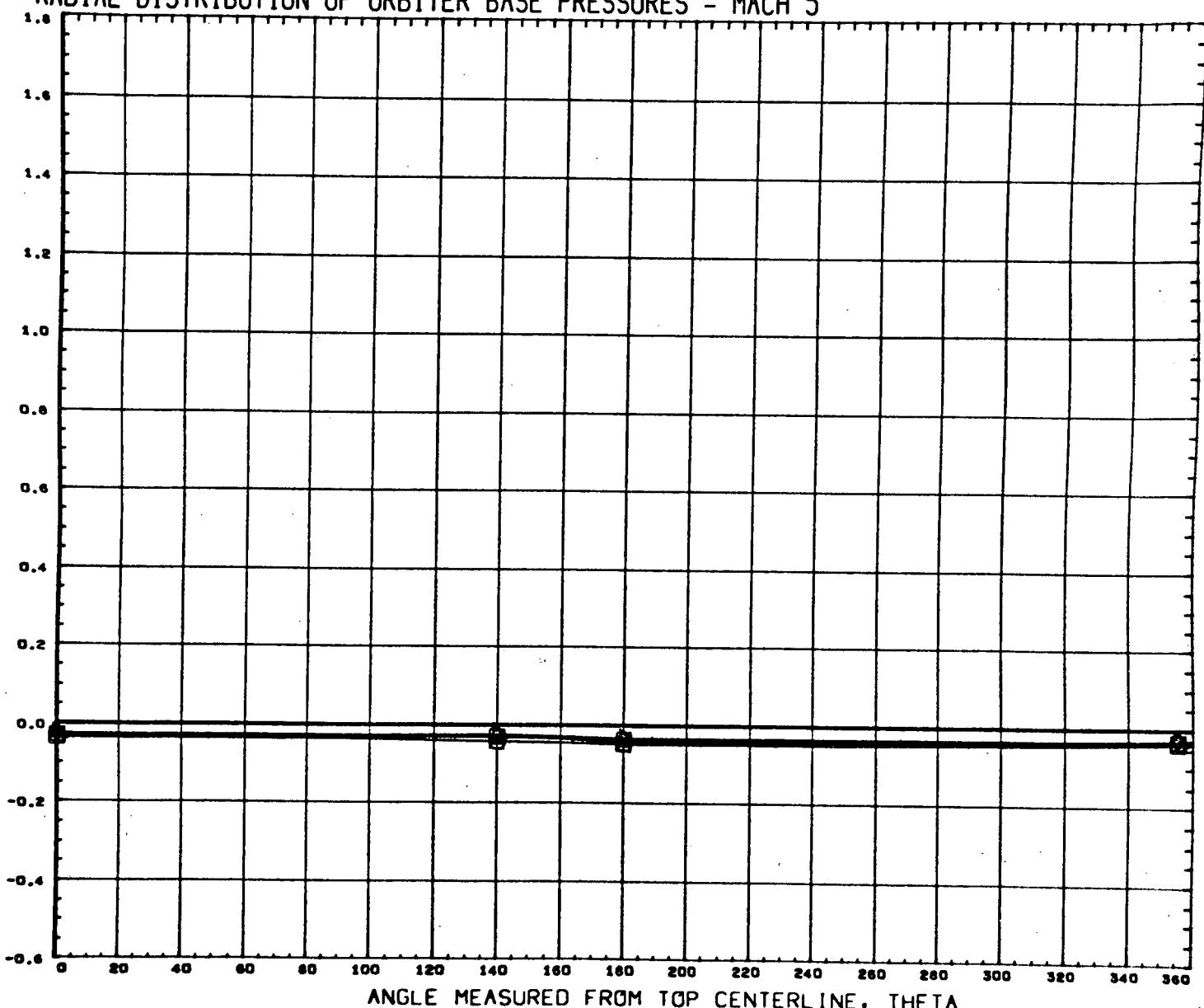
AEDC VAI163 MDAC ORBITER (BASE)

• IT8512 •

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RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL DELTAX X/L DELTAZ
 - 0.390 1.000 0.120
 - 0.143
 - 0.020
 0.103
 0.227
 0.350 REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

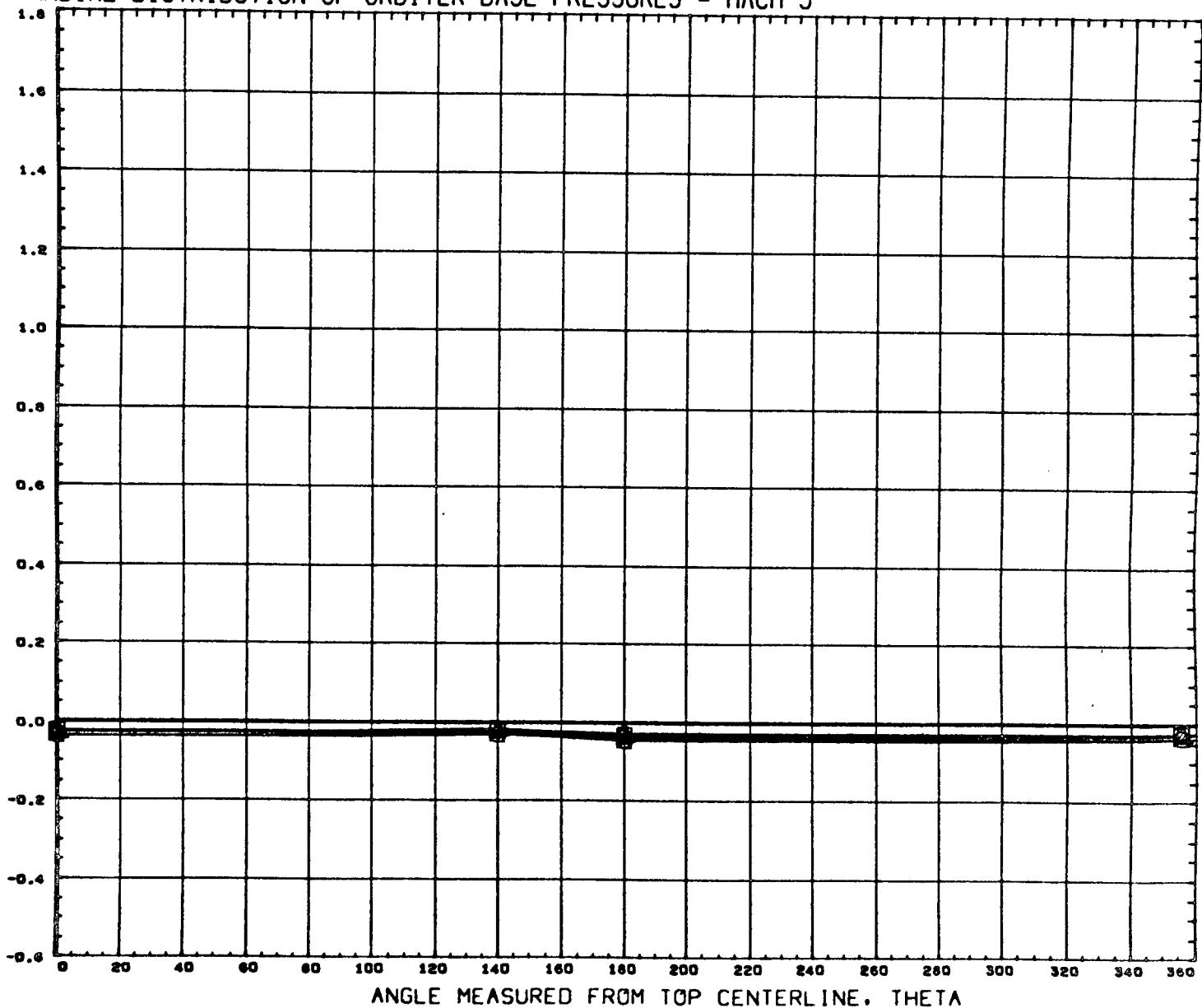
PARAMETRIC VALUES			
ALPHAB	-	4.886	
ALPHAI	0.000	MACH	4.940
BSTPOW	0.000	ORBPOW	0.000

•IT8512•

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RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP

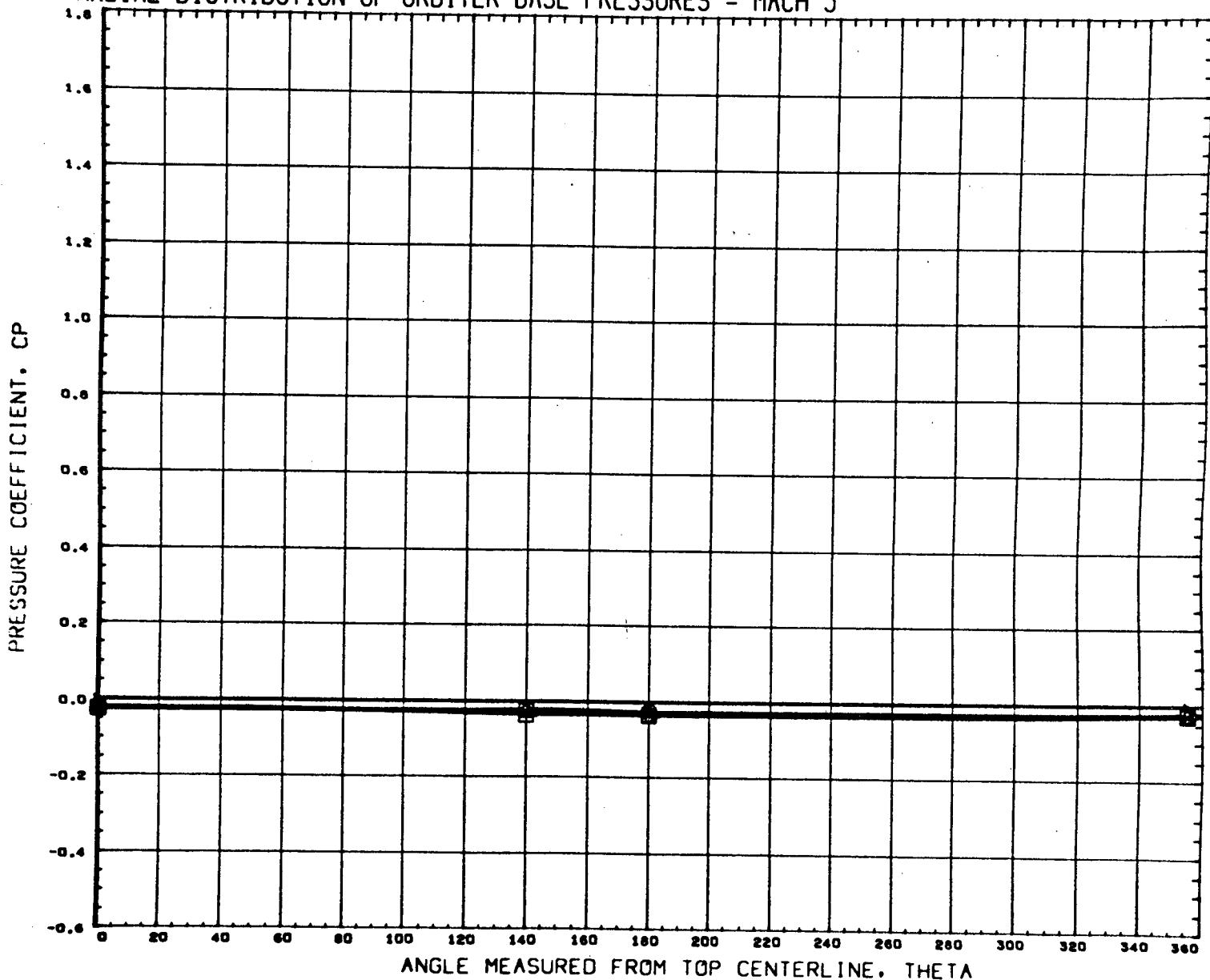


SYMBOL	DELTA X	X/L	DELTA Z
-	0.390	1.000	0.151
-	0.143		
-	0.020		
-	0.103		
-	0.227		
-	0.390		

REFERENCE FILE

PARAMETRIC VALUES		
ALPHAB	- 4.666	MACH 4.940
ALPHAI	0.000	ORBPOW 0.000
BSTPOW	0.000	

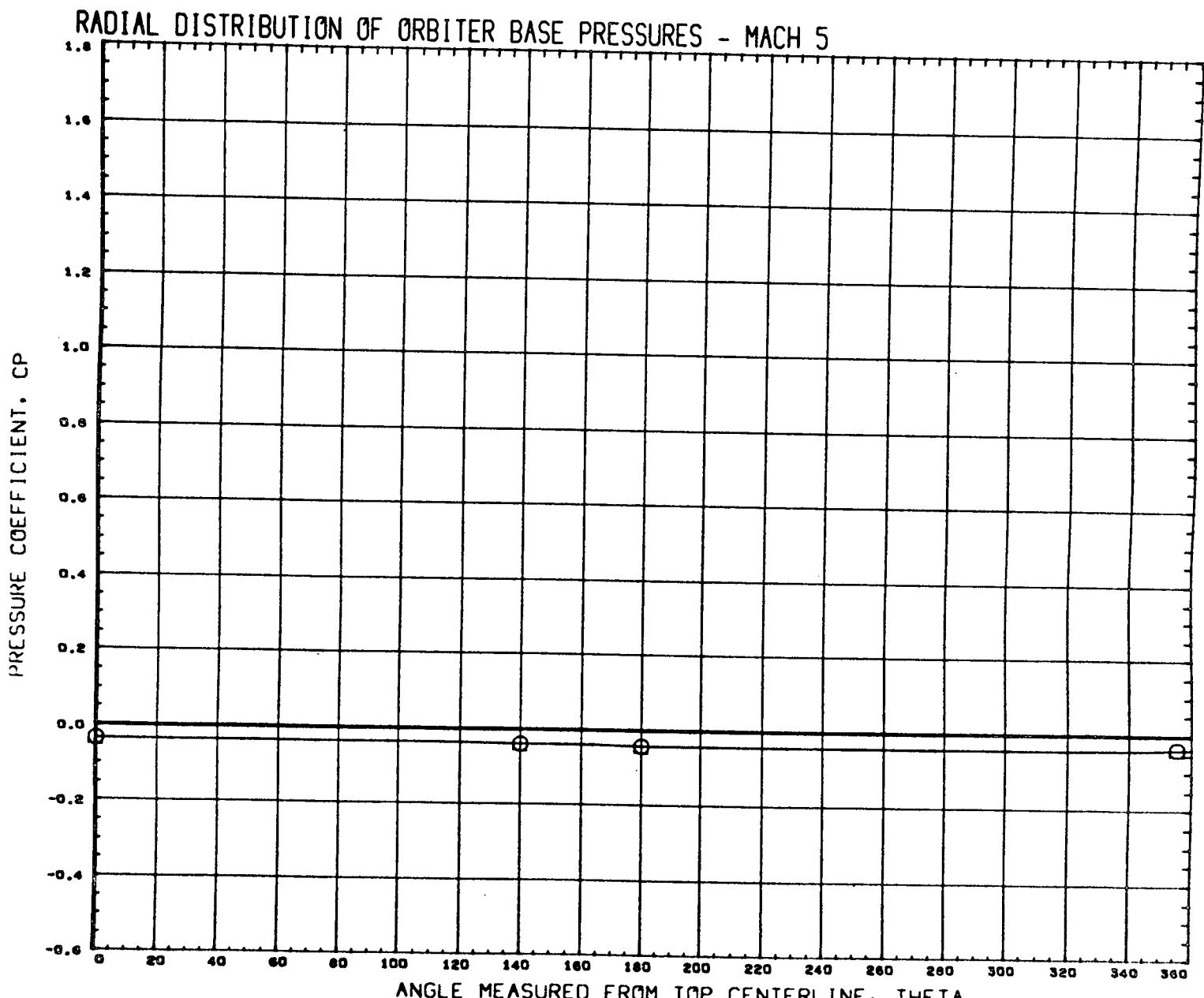
RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL	DELTA X	X/L	DELTA Z
-	0.390	1.020	0.220
-	0.143		
-	0.020		
-	0.103		
-	0.227		
-	0.350		

REFERENCE FILE

PARAMETRIC VALUES		
ALPHAB	- 4.888	MACH 4.940
ALPHAI	0.000	ORBPOW 0.000
BSTPOW	0.000	



SYMBOL DELTAX X/L DELTAZ
○ 0.320 1.000 0.909

PARAMETRIC VALUES			
ALPHAB	- 4.888	MACH	4.940
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

REFERENCE FILE

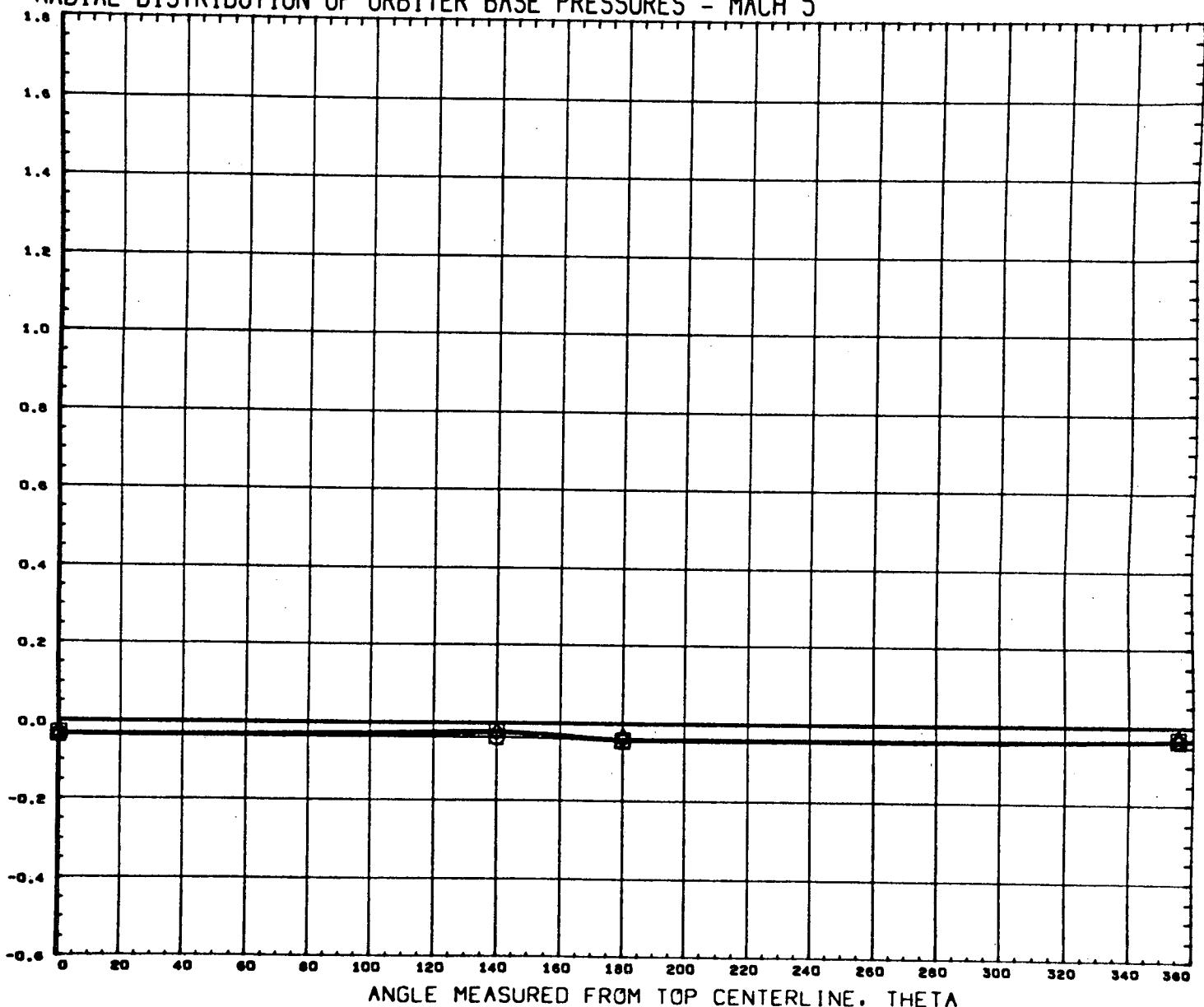
AEDC VA1163 MDAC ORBITER (BASE)

• IT8512 •

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RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL DELTAX X/L DELTAZ

△	0.041	1.000	0.114
◇	0.103		
◆	0.165		
□	0.350		

PARAMETRIC VALUES

ALPHAB	0.050	MACH	4.940
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

REFERENCE FILE

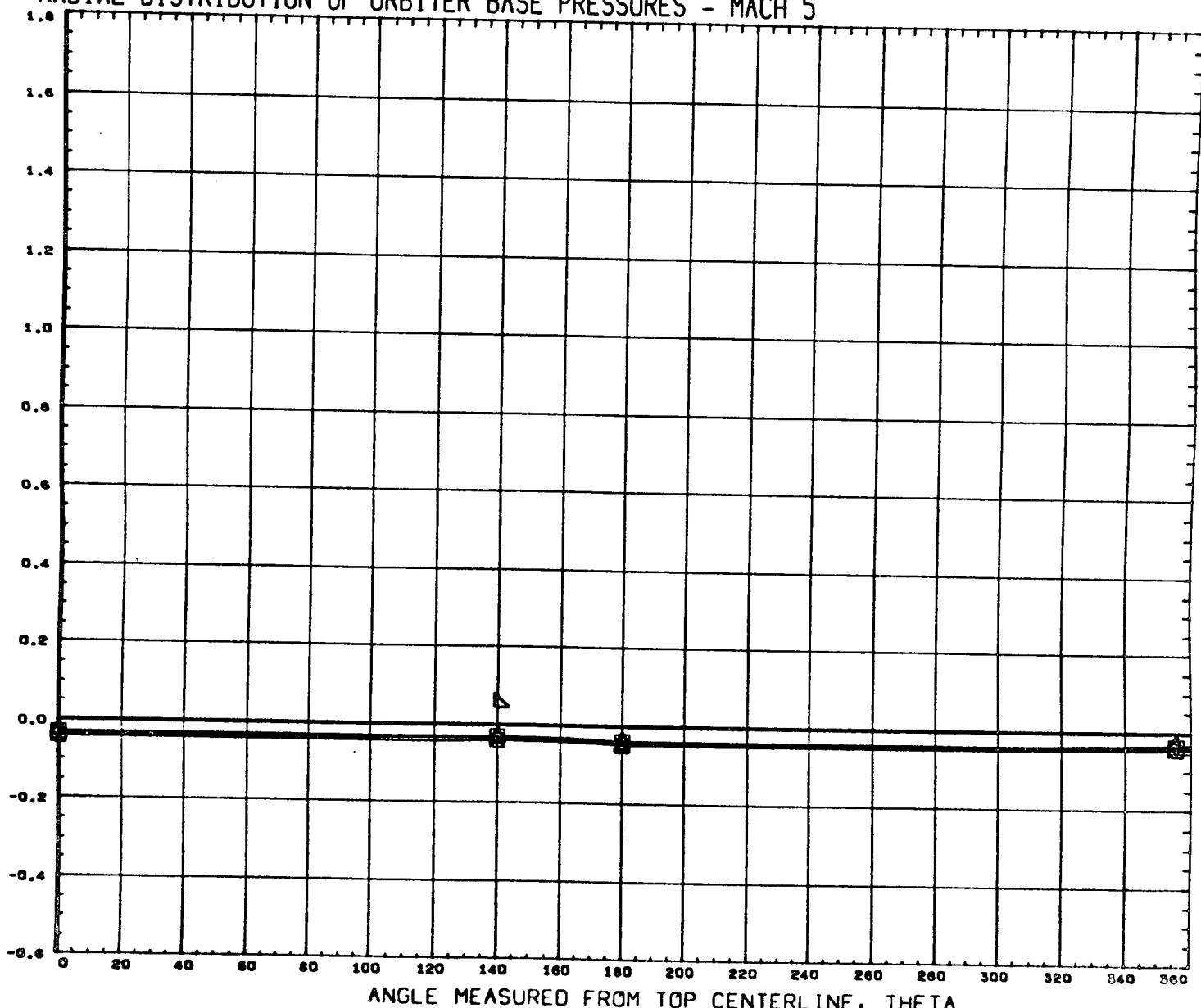
AEDC VA1163 MDAC ORBITER (BASE)

•IT8513•

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RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



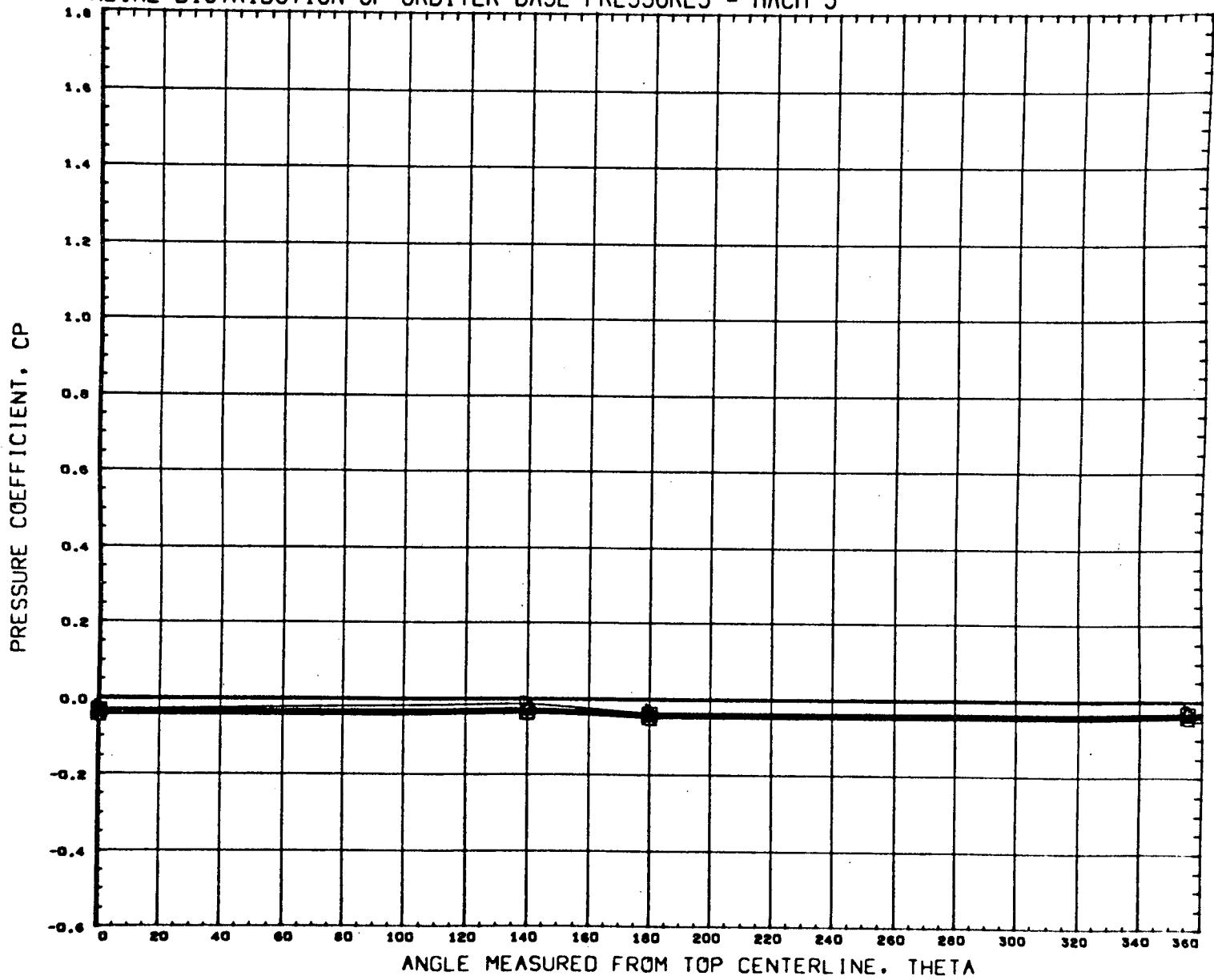
ANGLE MEASURED FROM TOP CENTERLINE. THETA

SYMBOL	DELTA X	X/L	DELTA Z
-	0.390	1.000	0.120
-	0.143		
-	0.020		
-	0.103		
-	0.227		
-	0.350		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	0.030	MACH	4.940
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



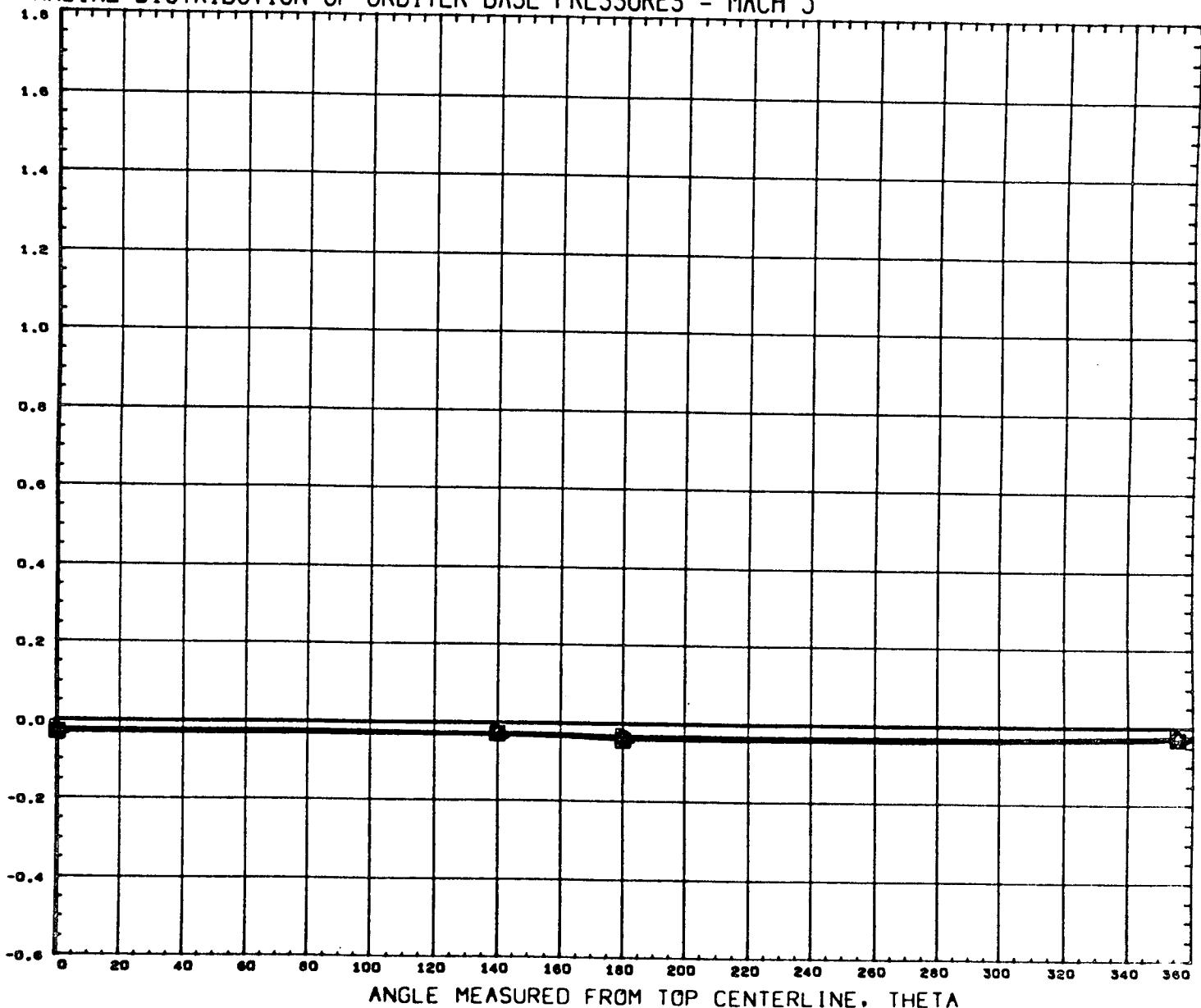
SYMBOL	DELTA X	X/L	DELTA Z
-	0.390	1.000	0.151
-	0.143		
-	0.020		
0	0.103		
0	0.227		
0	0.350		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	0.050	MACH	4.940
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP

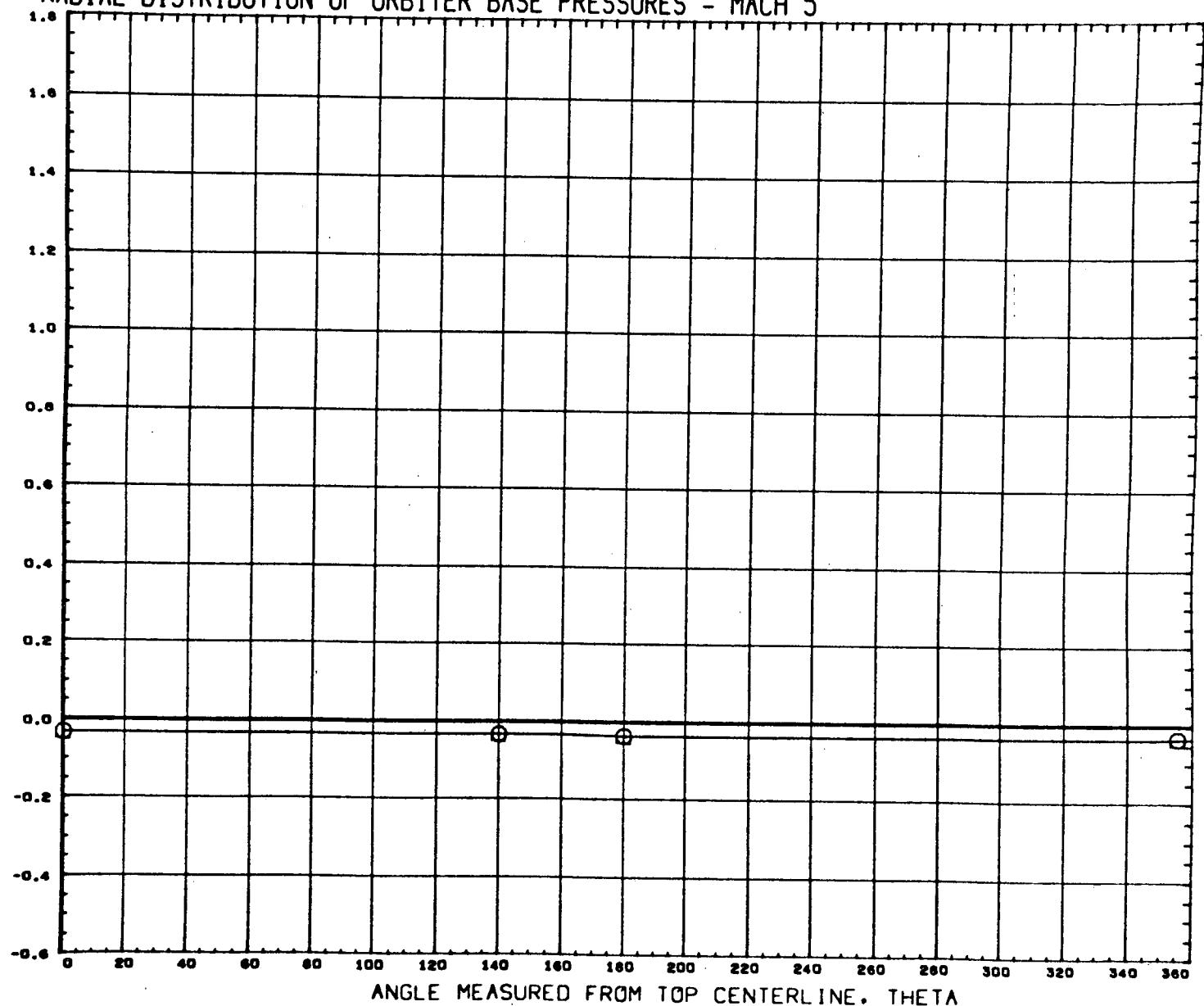


SYMBOL DELTAX X/L DELTAZ
 - 0.390 1.000 0.229
 - 0.143
 - 0.020
 0.103
 0.227
 0.390 REFERENCE FILE

	ALPHAB	MACH	ORBPOW
ALPHAB	0.050	4.940	
ALPHAI	0.000		0.000
BSTPOW			0.000

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL DELTAX X/L DELTAZ
 C 0.520 1.000 0.906

PARAMETRIC VALUES			
ALPHAB	0.050	MACH	4.940
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

REFERENCE FILE

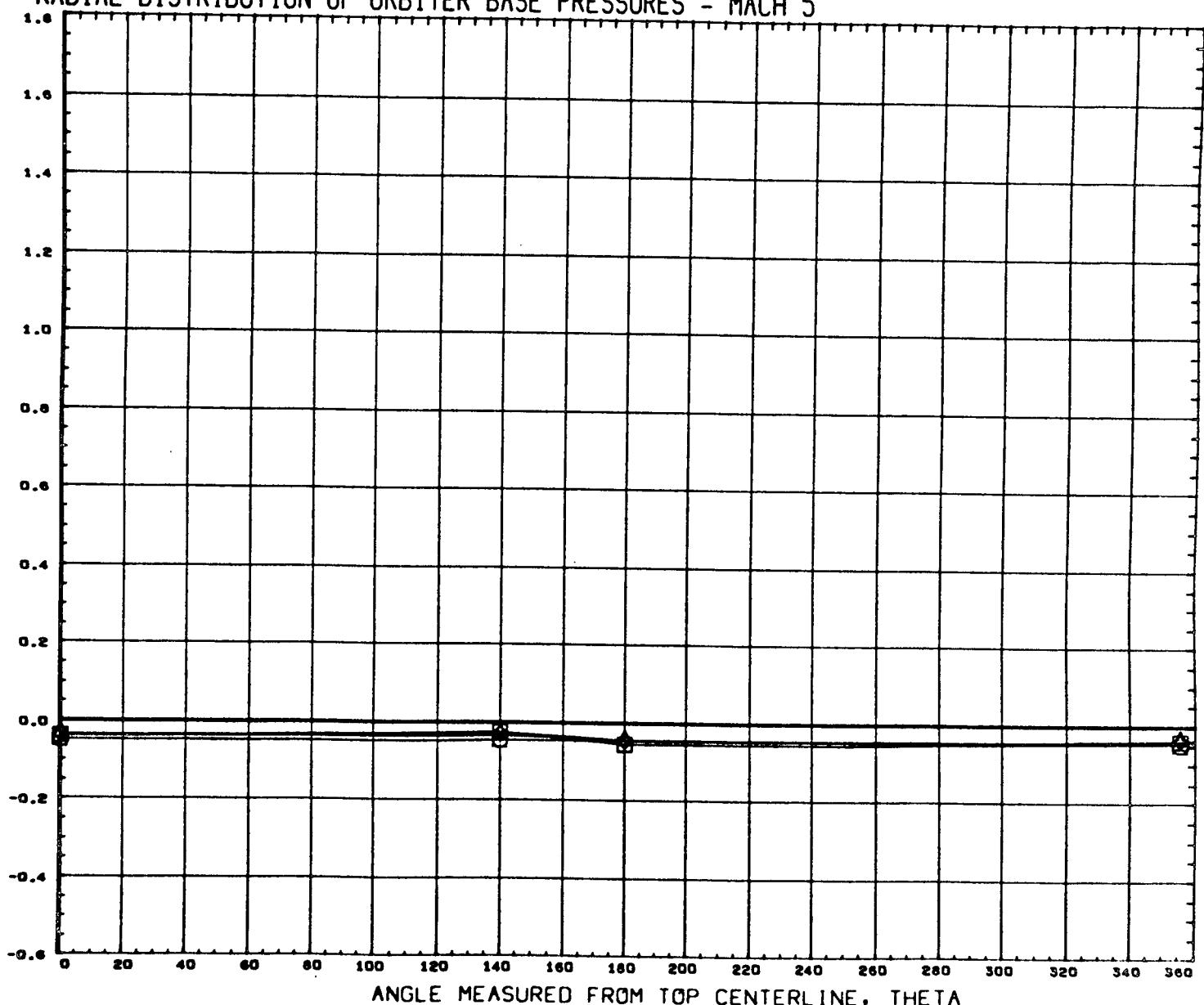
AEDC VA1163 MDAC ORBITER (BASE)

• IT8513 •

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RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL DELTAX X/L DELTAZ
 □ 0.041 1.000 0.114
 △ 0.103
 ◇ 0.165
 × 0.350

PARAMETRIC VALUES
 ALPHAB 5.020 MACH 4.940
 ALPHAI 0.000 ORBPOW 0.000
 BSTPOW 0.000

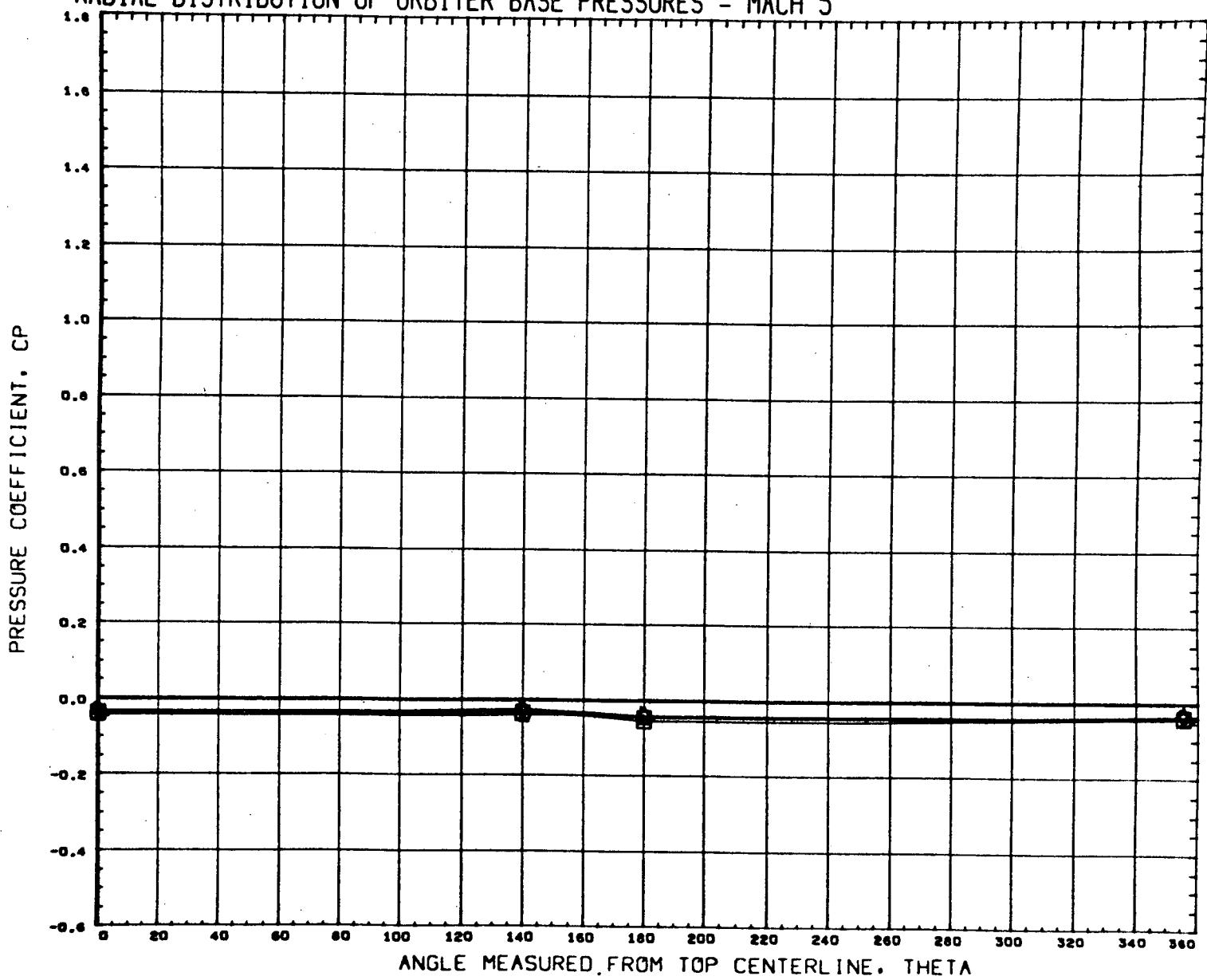
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

•IT8514•

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RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

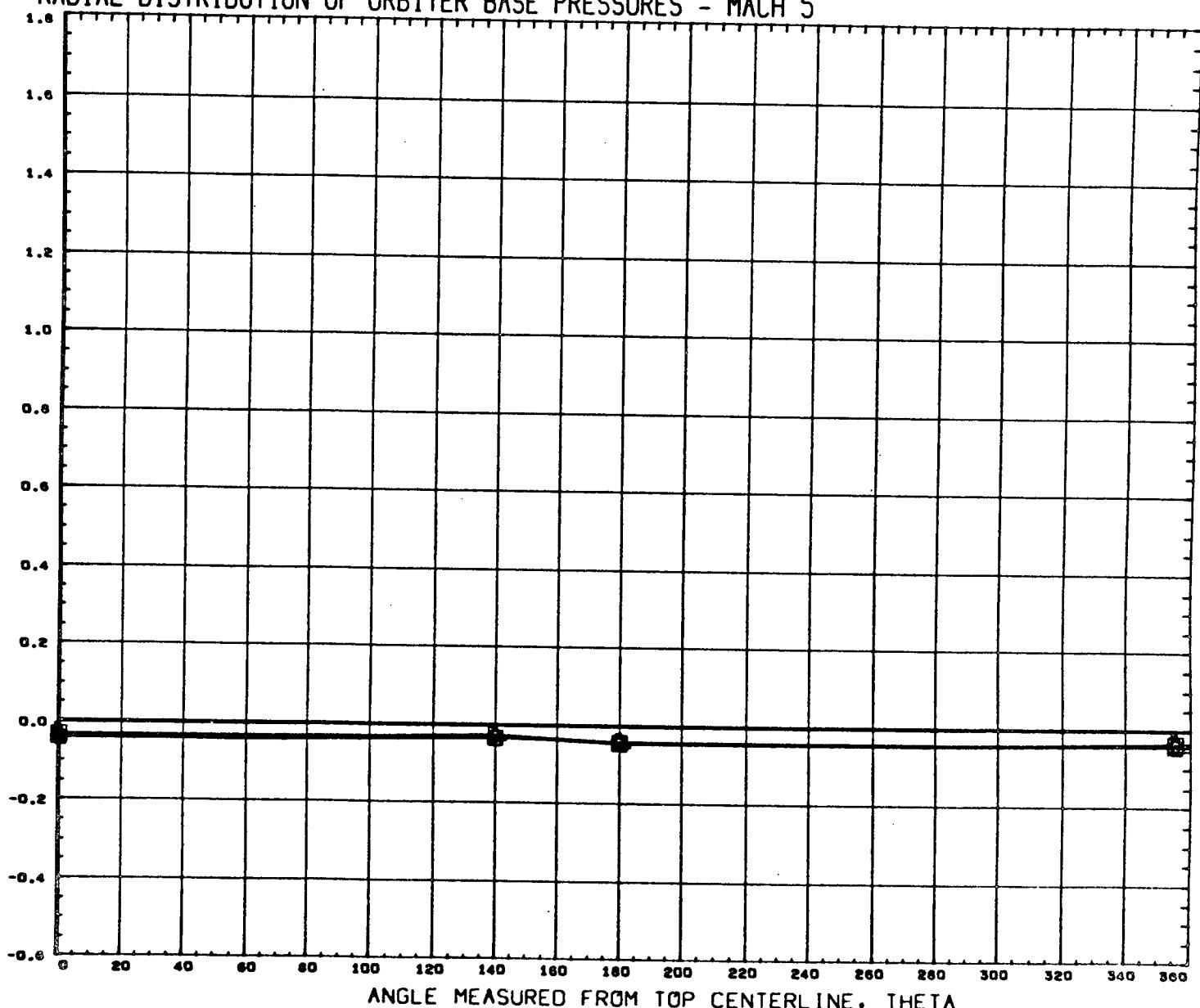


SYMBOL DELTAX X/L DELTAZ
 - 0.390 1.000 0.120
 - 0.143
 - 0.020
 0.103
 0.227
 0.350 REFERENCE FILE

PARAMETRIC VALUES
 ALPHAB 5.020 MACH 4.940
 ALPHAI 0.000 ORBPOW 0.000
 BSTPOW 0.000

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL	DELTAX	X/L	DELTAZ
-	0.390	1.000	0.151
-	0.143		
-	0.020		
-	0.103		
-	0.227		
-	0.350		

REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

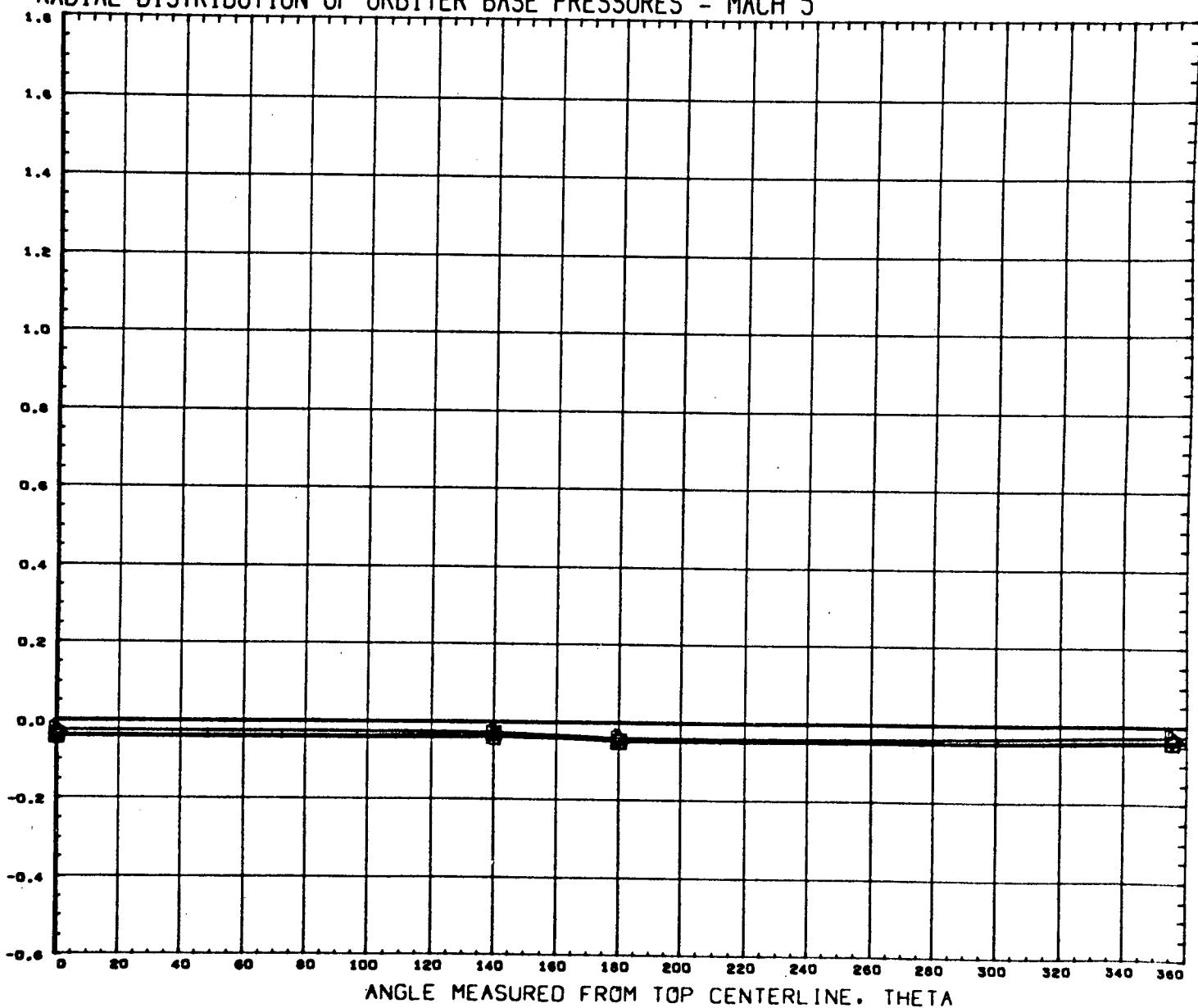
PARAMETRIC VALUES			
ALPHAB	5.020	MACH	4.940
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

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PAGE 1010

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP

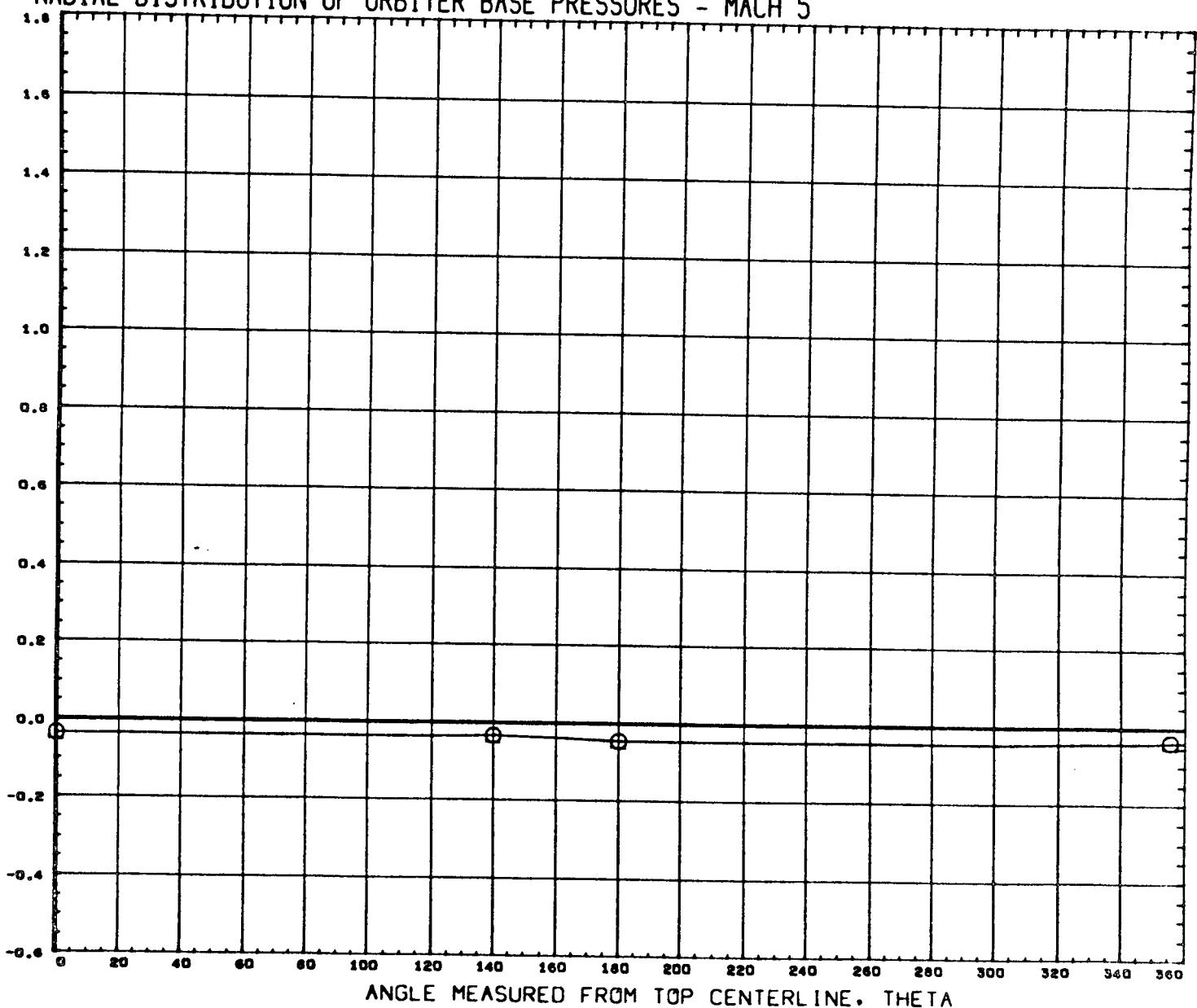


SYMBOL DELTAX X/L DELTAZ
 - 0.390 1.000 0.228
 - 0.143
 - 0.020
 0.103
 0.227
 0.390 REFERENCE FILE

PARAMETRIC VALUES		
ALPHAB	5.020	MACH 4.940
ALPHAI	0.000	ORBPOW 0.000
BSTPOW	0.000	

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL DELTAX X/L DELTAZ
C 0.320 1.000 0.905

PARAMETRIC VALUES			
ALPHAB	5.020	MACH	4.040
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

REFERENCE FILE

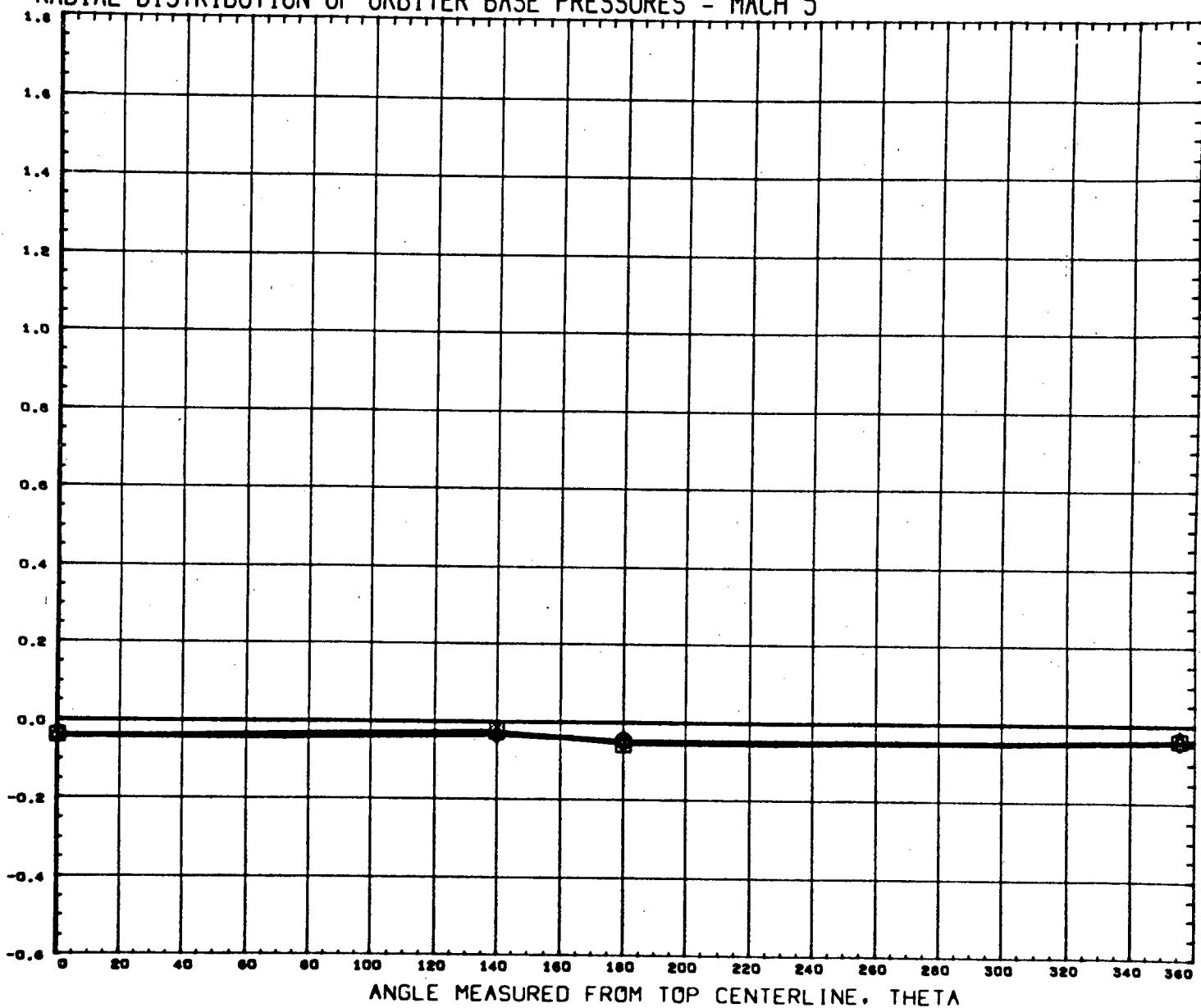
AEDC VA1163 MDAC ORBITER (BASE)

•IT8514•

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RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



SYMBOL DELTAX X/L DELTAZ
□ 0.041 1.000 0.114
△ 0.103
○ 0.165
× 0.390

PARAMETRIC VALUES
 ALPHAB 10.063 MACH 4.940
 ALPHAI 0.000 ORBPOW 0.000
 BBTPOW 0.000

REFERENCE FILE

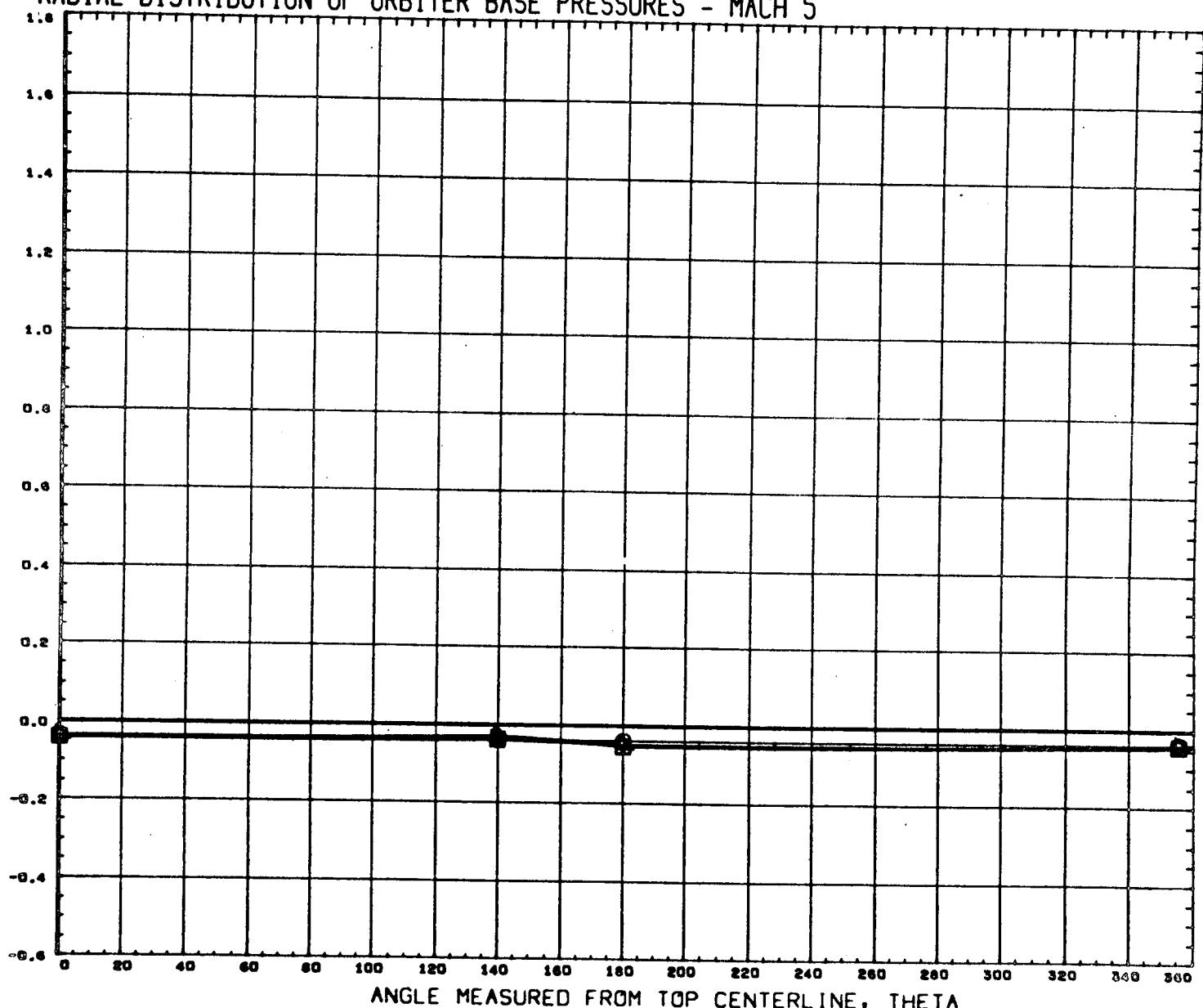
AEDC VA1163 MDAC ORBITER (BASE)

• IT8515 •

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RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP

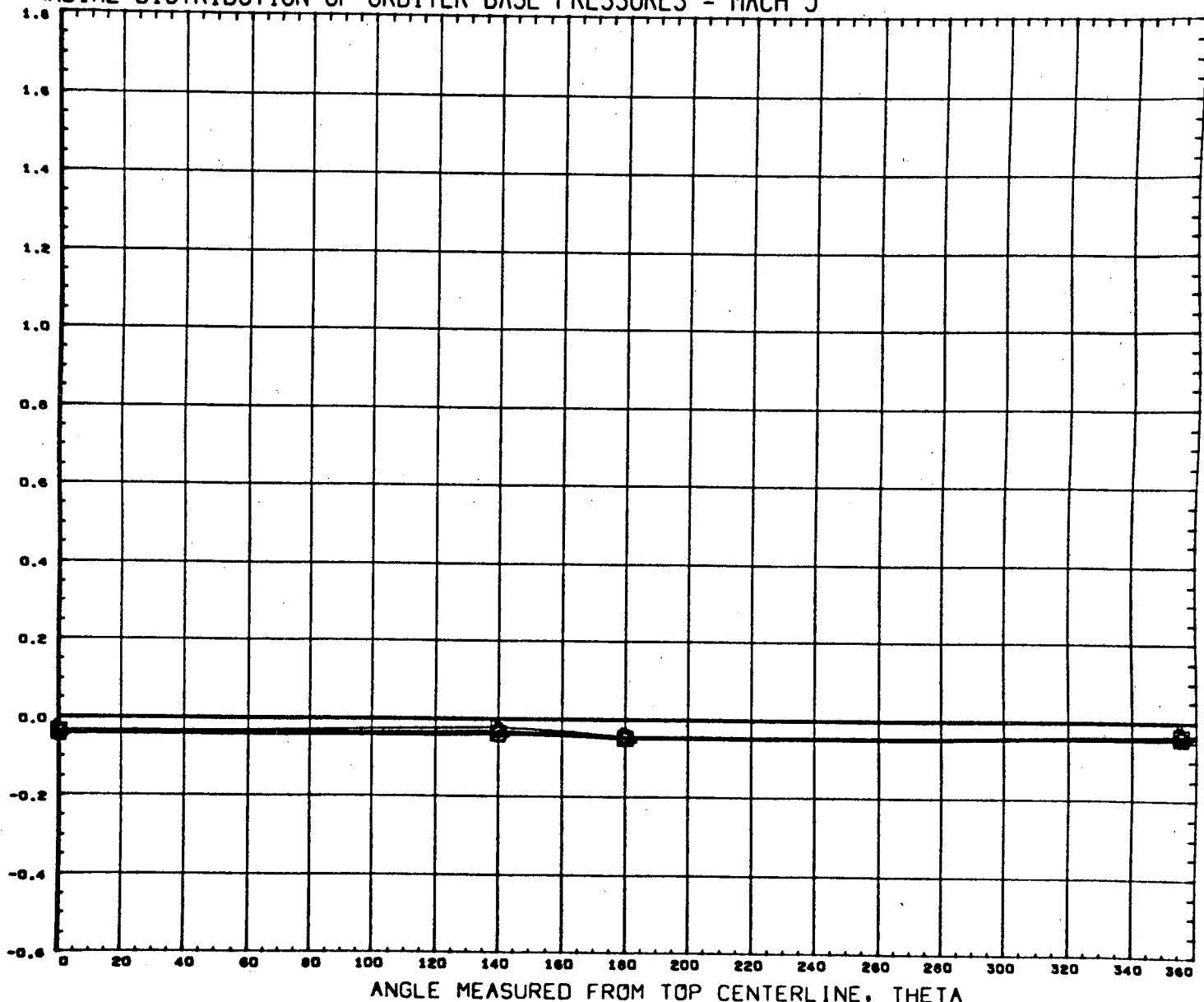


SYMBOL DELTAX X/L DELTAZ
 - 0.390 1.000 0.120
 - 0.143
 - 0.020
 0.103
 0.227
 0.350 REFERENCE FILE

	ALPHAB	MACH
ALPHAI	10.063	4.940
BSTPOW	0.000	0.000

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL	DELTA X	X/L	DELTA Z
Δ	- 0.390	1.000	0.151
\diamond	- 0.143		
\square	- 0.020		
\times	0.103		
\triangle	0.227		
\square	0.350		

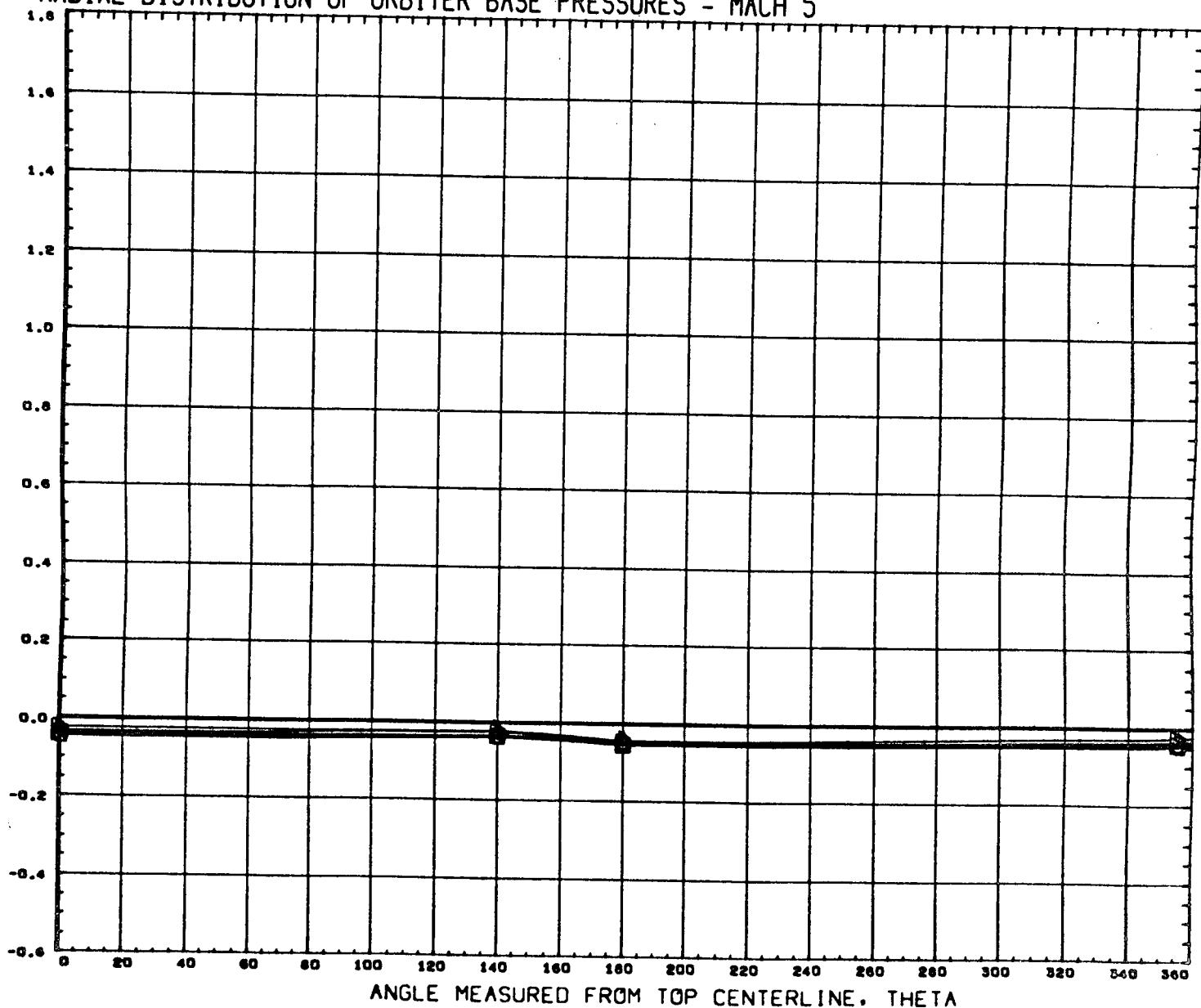
REFERENCE FILE

PARAMETRIC VALUES

ALPHAB	10.063	MACH	4.940
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL DELTAX X/L DELTAZ

- 0.390 1.000 0.226

- 0.143

- 0.020

0.103

0.227

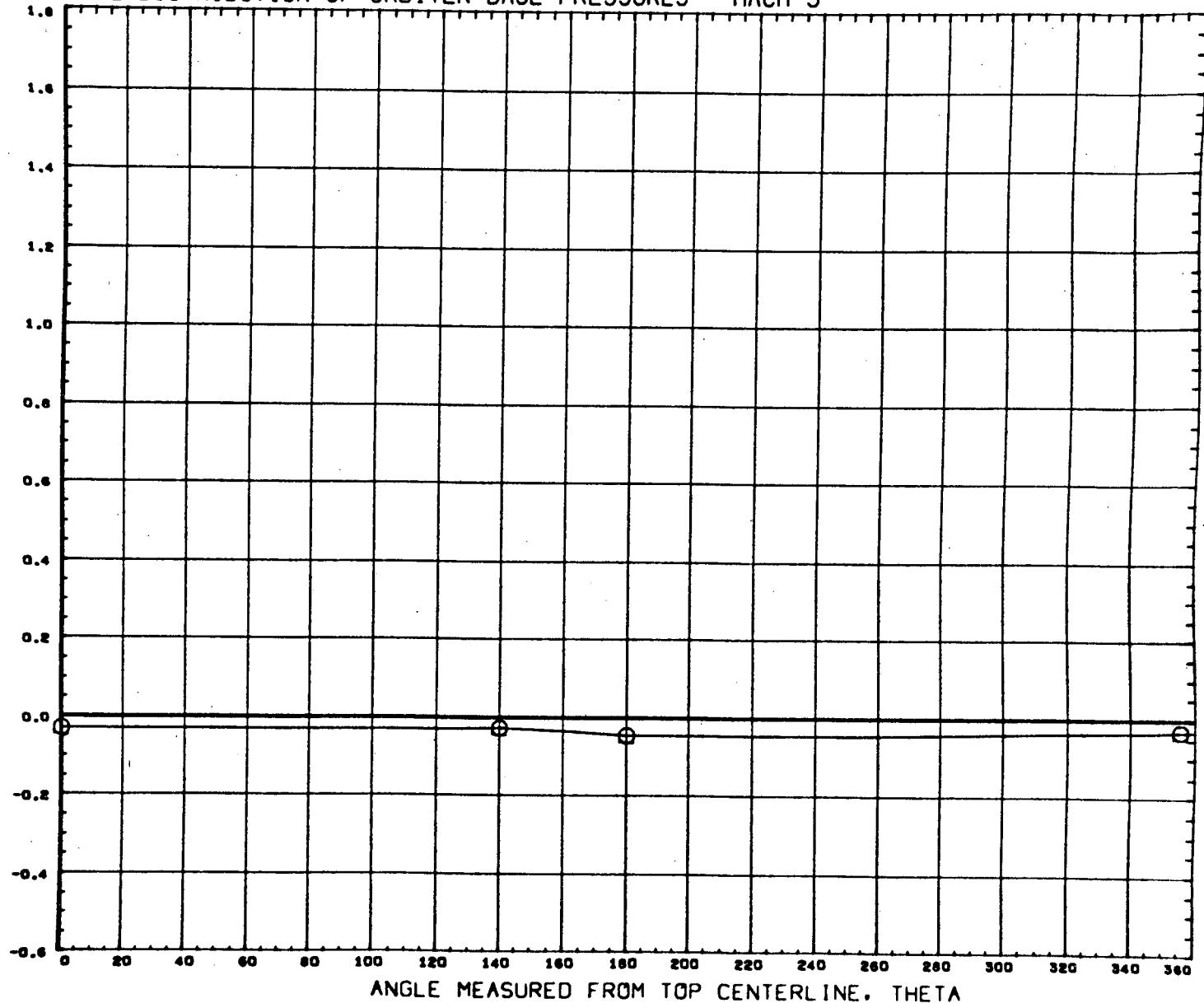
0.350 REFERENCE FILE

PARAMETRIC VALUES

ALPHAB	10.063	MACH	4.940
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

PRESSURE COEFFICIENT, CP

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL DELTAX X/L DELTAZ

(○) 0.920 1.000 0.906

PARAMETRIC VALUES

ALPHAB	10.063	MACH	4.940
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

REFERENCE FILE

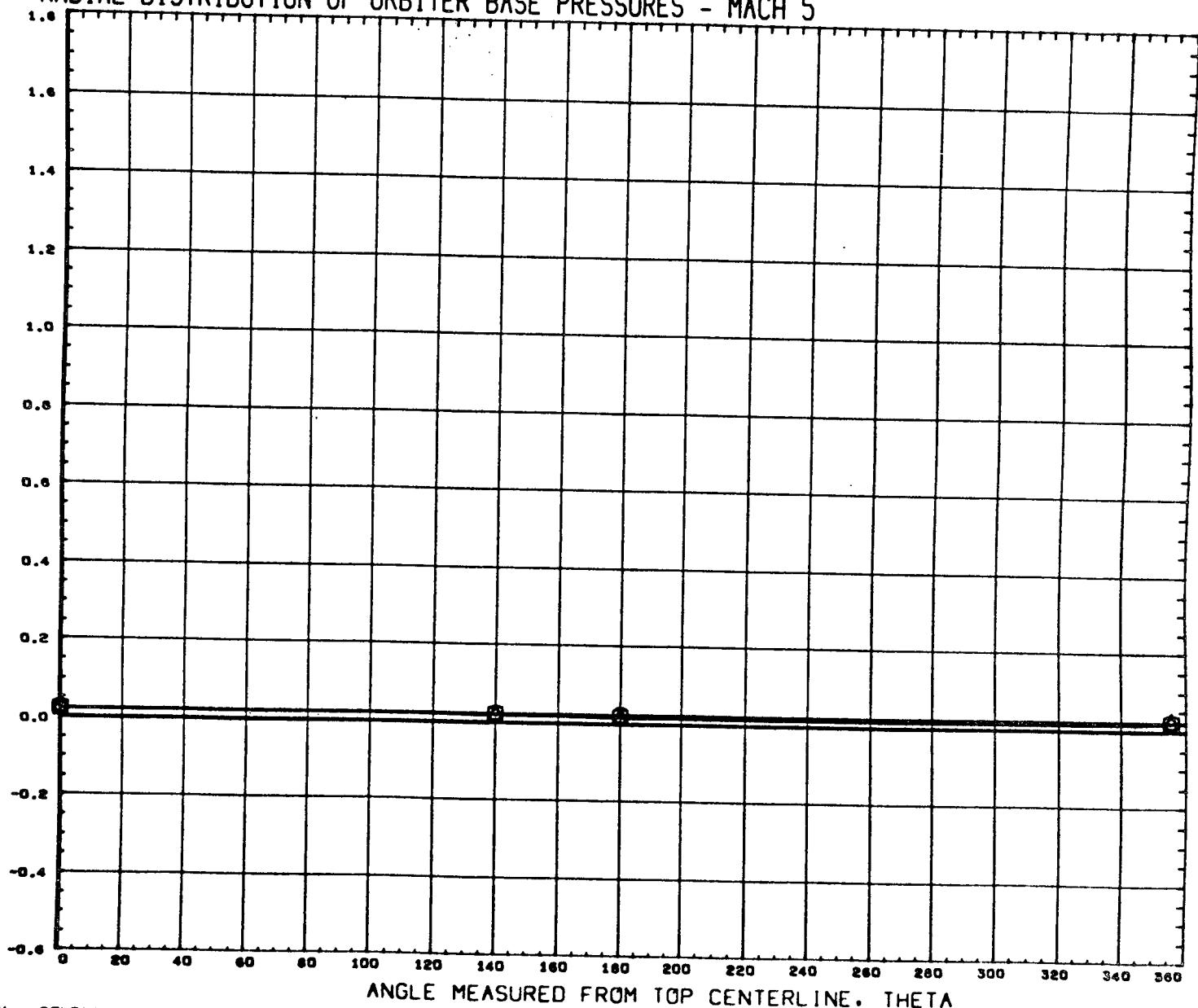
AEDC VA1163 MDAC ORBITER (BASE)

•IT8515•

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RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL DELTAX X/L DELTAZ
△ 0.041 1.000 0.114
□ 0.103
◊ 0.169
○ 0.359

PARAMETRIC VALUES
 ALPHAB = 9.932 MACH 4.940
 ALPHA1 = 0.000 ORBPOW 90.000
 BSTPOW 100.000

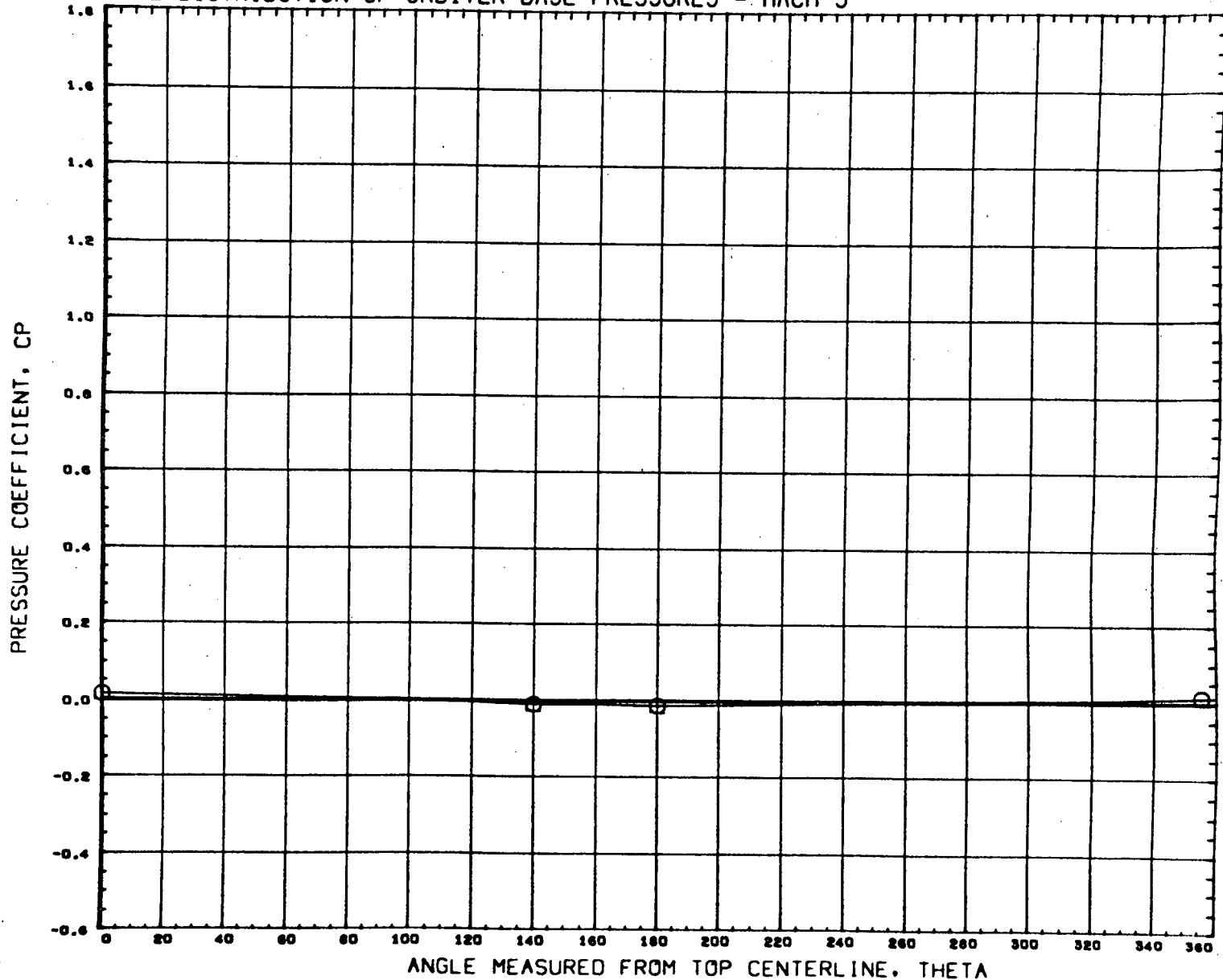
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

• IT8521 •

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RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL DELTAX X/L DELTAZ

 0.920 1.000 0.908

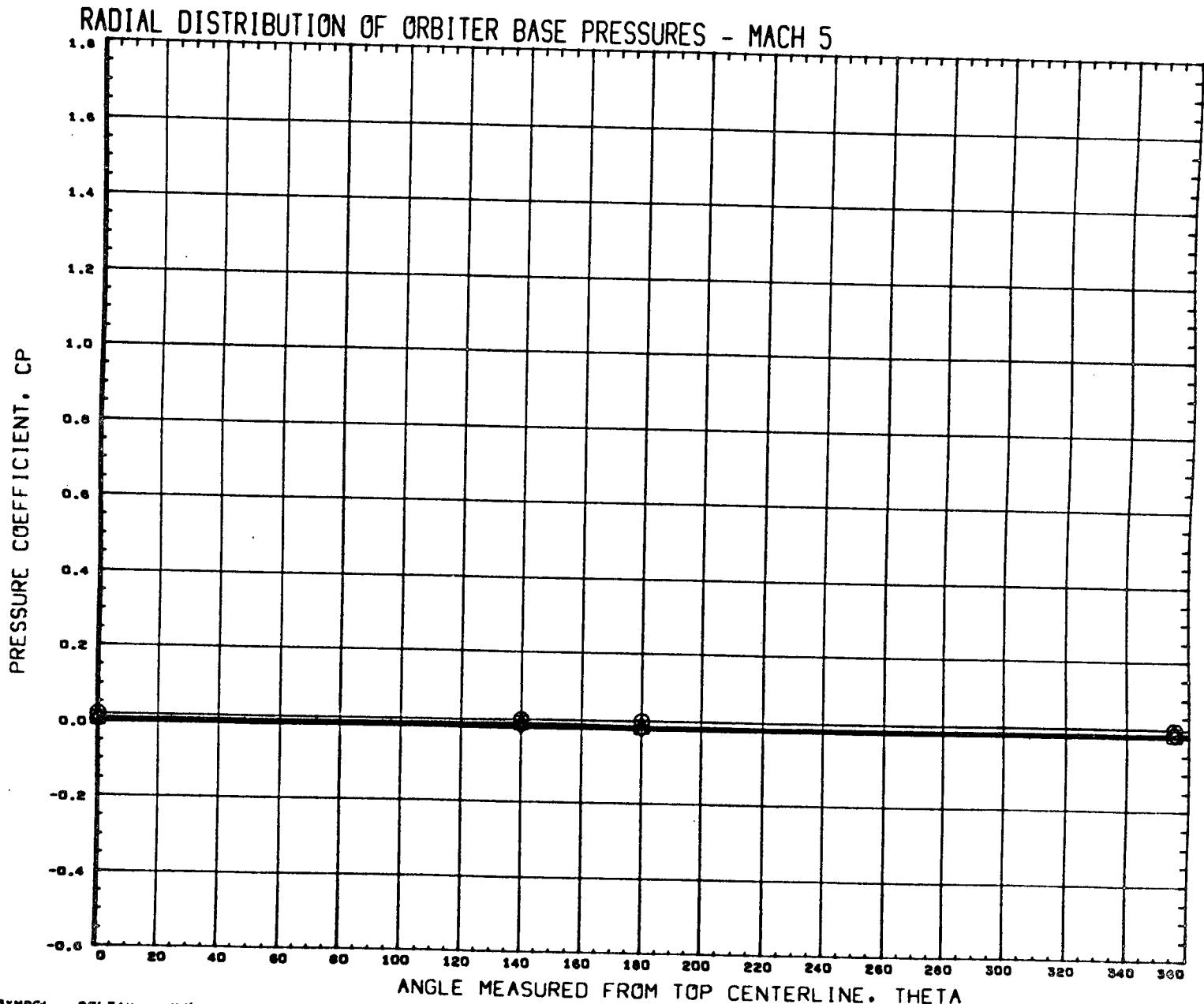
PARAMETRIC VALUES			
ALPHAB	- 9.932	MACH	4.940
ALPHAI	0.000	ORBPOW	50.000
BSTPOW	100.000		

REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

•IT8521•

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SYMBOL	DELTA X	X/L	DELTA Z
\odot	0.041	1.000	0.214
\diamond	0.103		
\square	0.165		
\times	0.330		

PARAMETRIC VALUES			
ALPHAB	- 4.906	MACH	4.940
ALPHAI	0.000	ORBPOW	50.000
BSTPOW	100.000		

REFERENCE FILE

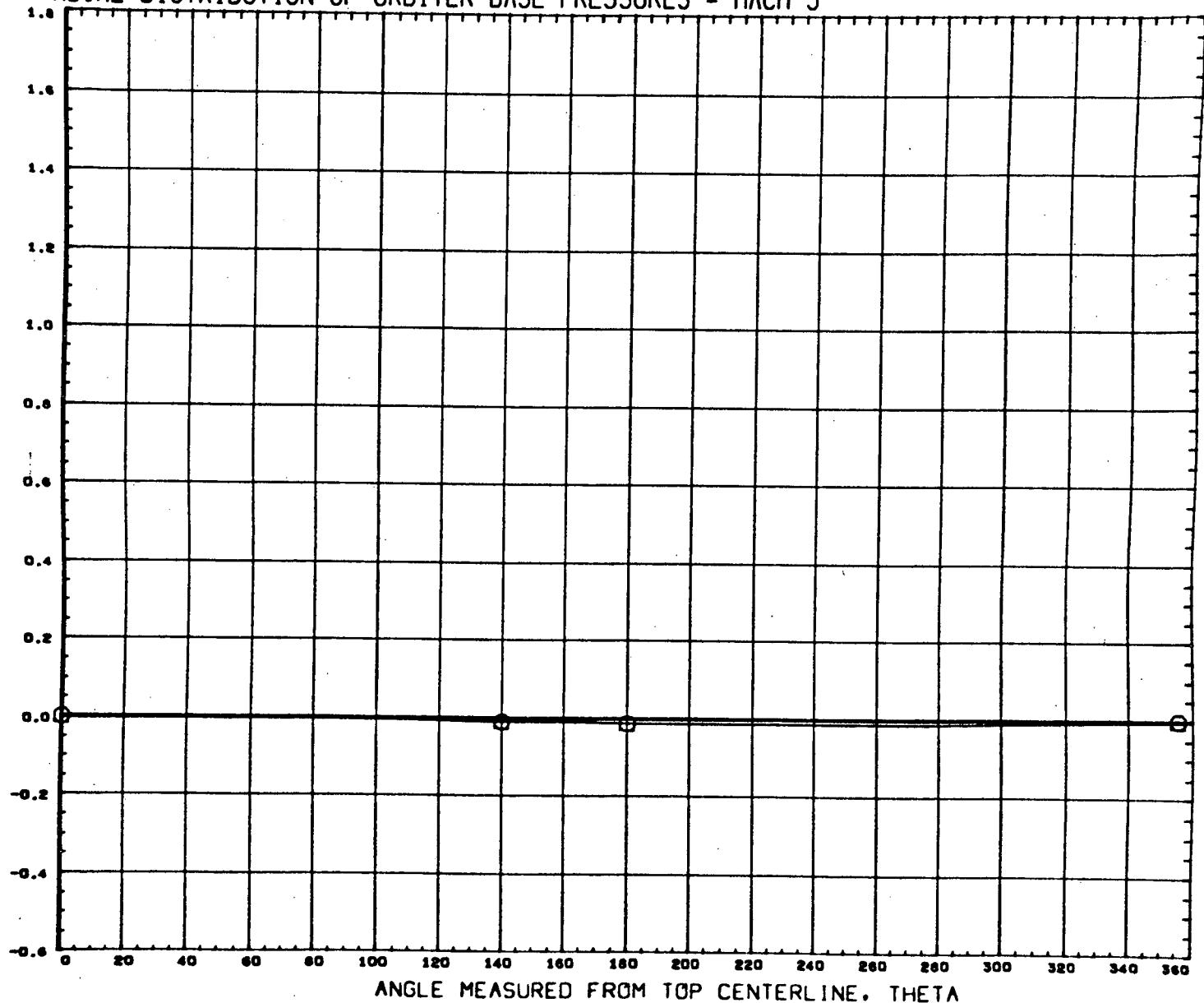
AEDC VA1163 MOAC ORBITER (BASE)

• IT8522 •

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PRESSURE COEFFICIENT, CP

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL DELTAX X/L DELTAZ
C 0.920 1.000 0.906

PARAMETRIC VALUES
ALPHAB - 4.906 MACH 4.940
ALPHAI 0.000 ORBPOW 50.000
BBTPOW 100.000

REFERENCE FILE

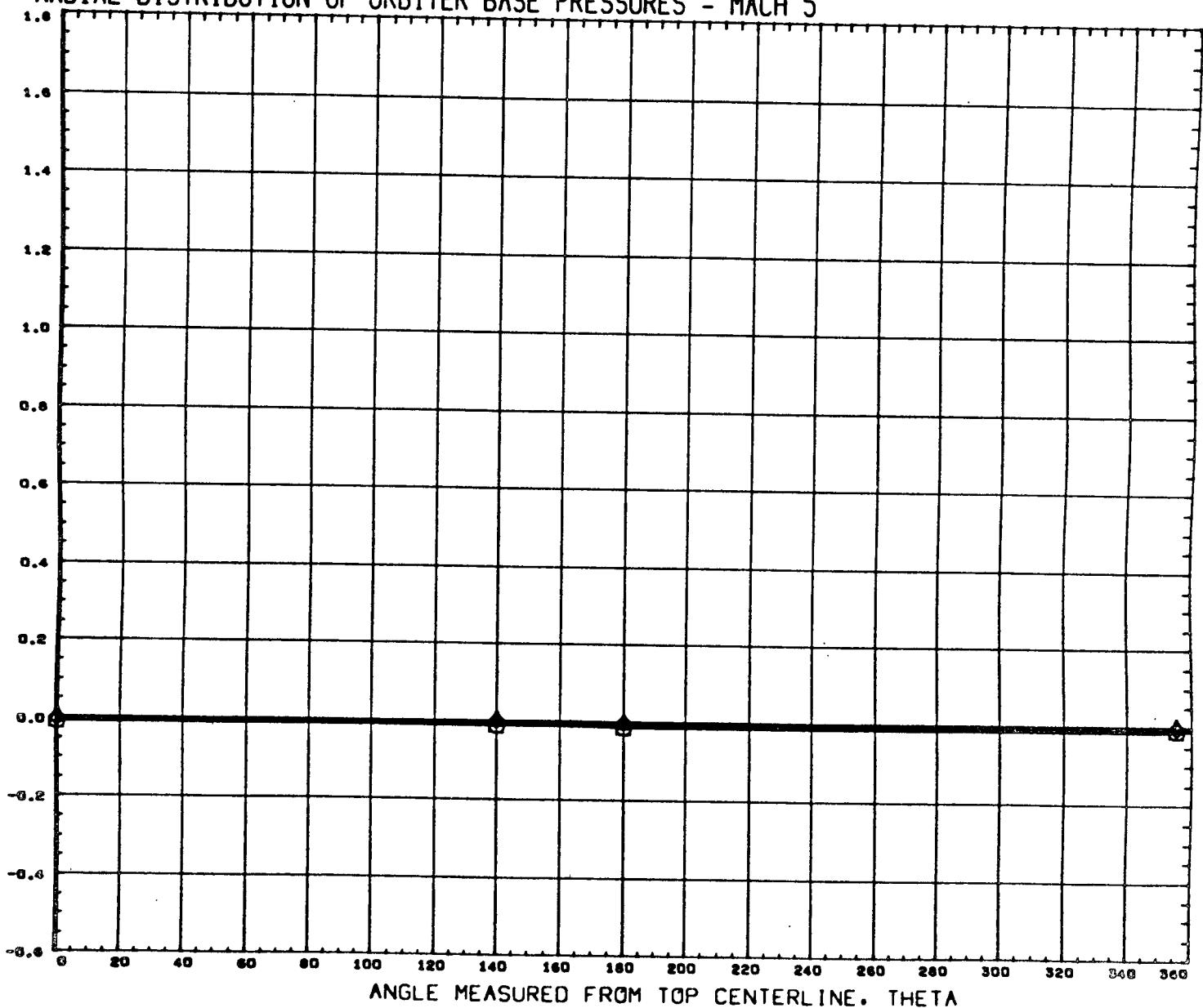
AEDC VA1163 MDAC ORBITER (BASE)

•IT8522•

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RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL DELTAX X/L DELTAZ
○ 0.041 1.000 0.114
△ 0.103 0.114
◊ 0.165 0.114

PARAMETRIC VALUES			
ALPHAB	0.037	MACH	4.940
ALPHAI	0.000	ORBPOW	50.000
BSTPON	100.000		

REFERENCE FILE

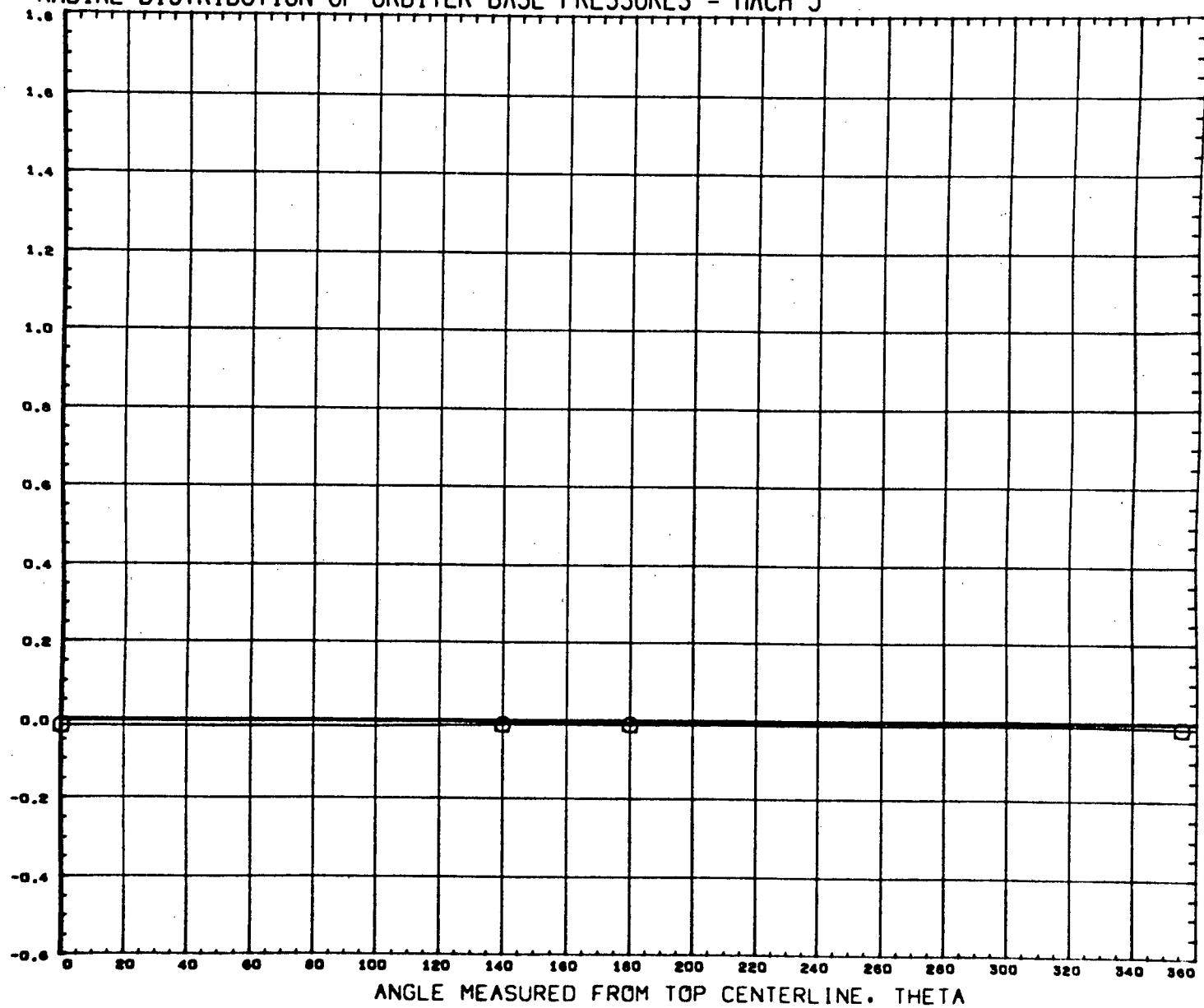
AEDC VA1163 MDAC ORBITER (BASE)

• IT8523 •

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PRESSURE COEFFICIENT, CP

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL DELTAX X/L DELTAZ
□ 0.920 1.000 0.906

PARAMETRIC VALUES
ALPHAB 0.037 MACH 4.940
ALPHAI 0.000 ORBPOW 50.000
BBTPOW 100.000

REFERENCE FILE

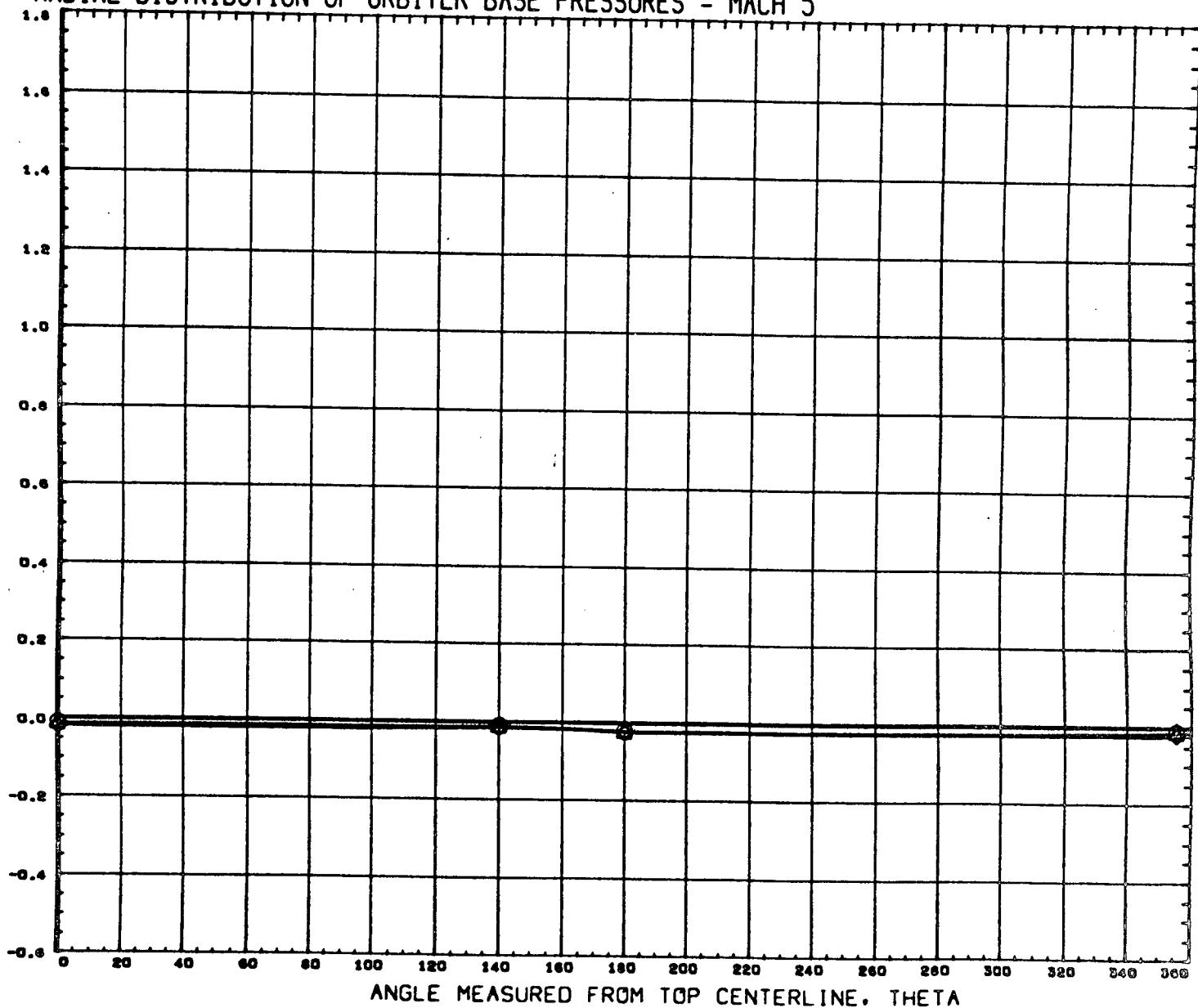
AEDC VA1163 MDAC ORBITER (BASE)

•IT8523•

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RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



SYMBOL DELTAX X/L DELTAZ
 ○ 0.041 1.000 0.114
 △ 0.103
 ◇ 0.165

PARAMETRIC VALUES
 ALPHAB 5.012 MACH 4.940
 ALPHAI 0.000 ORBPOW 90.000
 BBTPOW 100.000

REFERENCE FILE

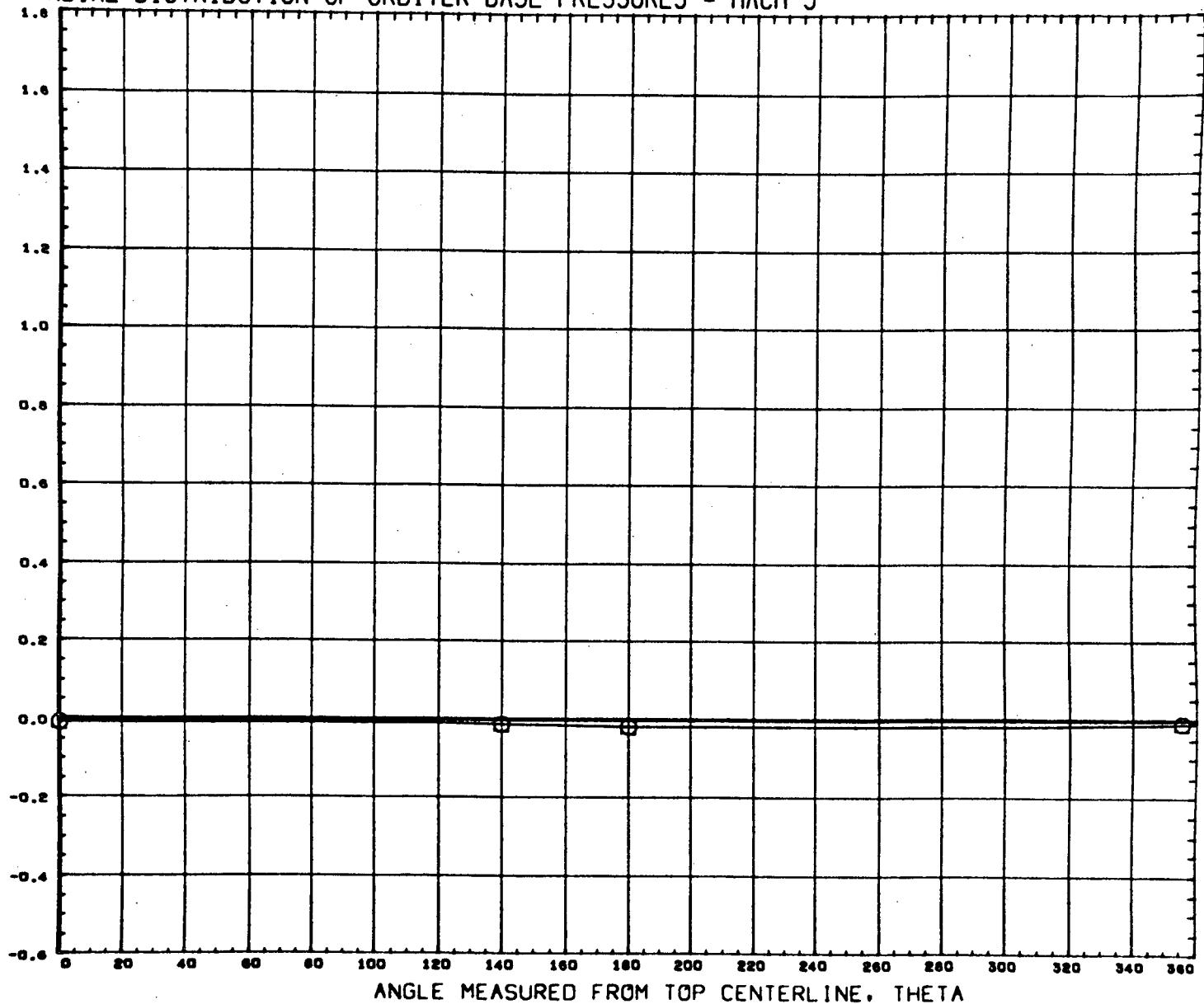
AEDC VA1163 MDAC ORBITER (BASE)

• IT8524 •

PAGE 1024

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL DELTAX X/L DELTAZ
C 0.920 1.000 0.908

PARAMETRIC VALUES			
ALPHAB	5.012	MACH	4.940
ALPHAI	0.000	ORBPOW	90.000
BSTPOW	100.000		

REFERENCE FILE

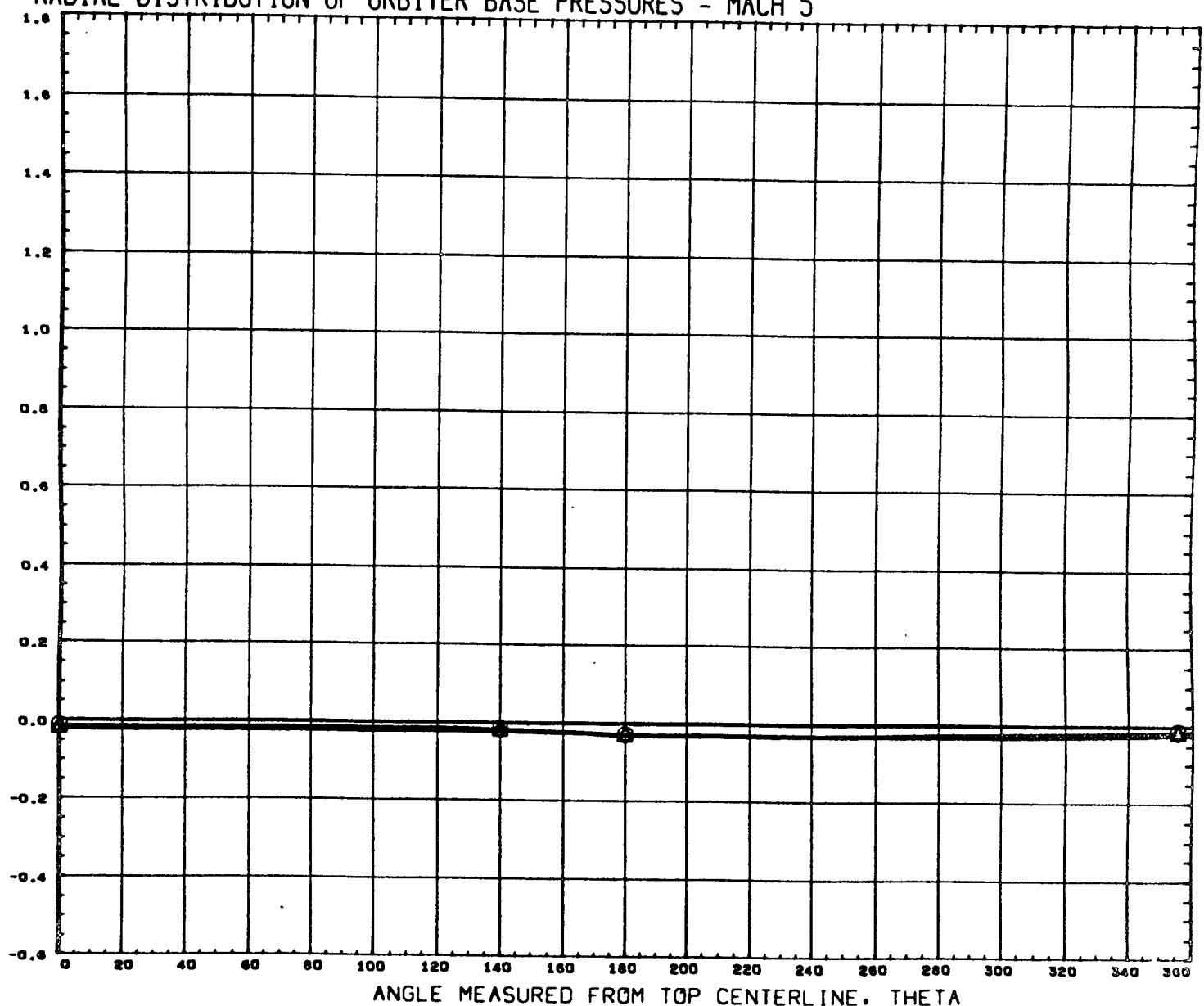
AEDC VA1163 MDAC ORBITER (BASE)

• IT8524 •

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RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



ANGLE MEASURED FROM TOP CENTERLINE. THETA

SYMBOL	DELTAX	X/L	DELTAZ
○	0.041	1.000	0.114
△	0.103		
◊	0.165		

PARAMETRIC VALUES			
ALPHAB	10.042	MACH	6.940
ALPHAI	0.000	ORBPOW	50.000
BSTPOW	100.000		

REFERENCE FILE

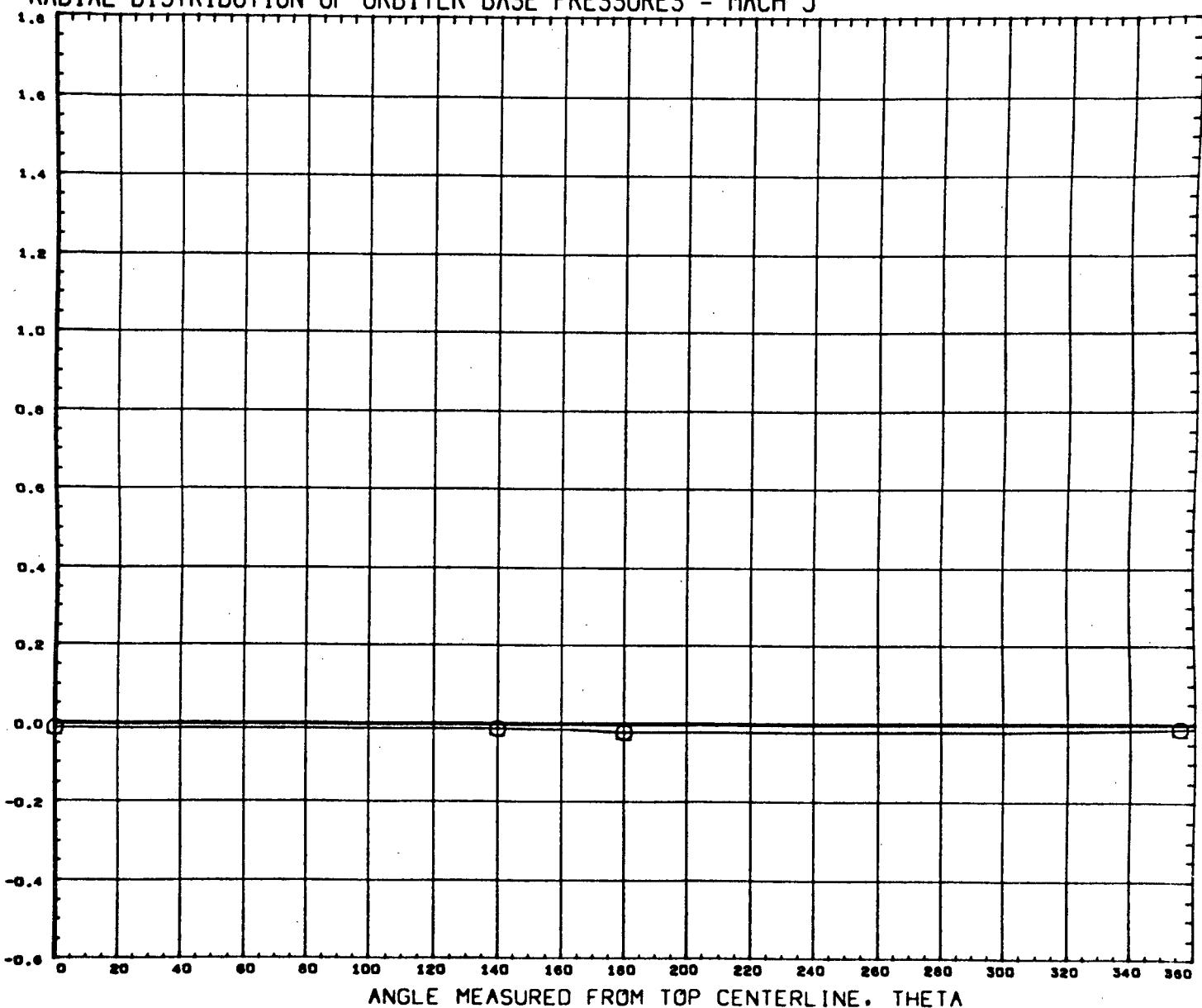
AEDC VA1163 MDAC ORBITER (BASE)

•IT8525•

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RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL DELTAX X/L DELTAZ
□ 0.920 1.000 0.908

PARAMETRIC VALUES	
ALPHAB	10.042
ALPHAI	0.000
BSTPOW	100.000
MACH	4.940
ORBPOW	50.000

REFERENCE FILE

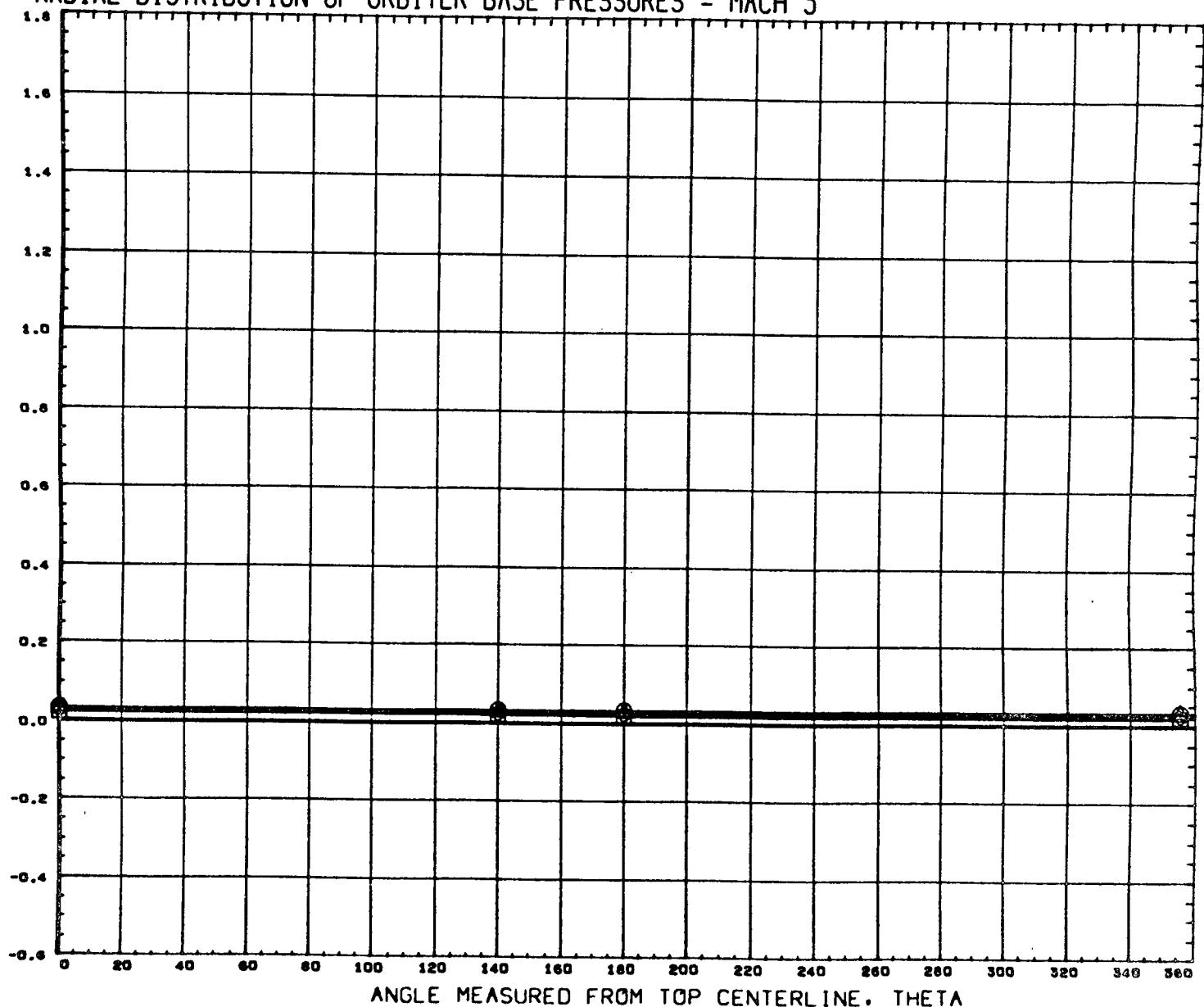
AEDC VA1163 MDAC ORBITER (BASE)

•IT8525•

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RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



SYMBOL	DELTA X	X/L	DELTA Z
-	0.041	1.000	0.114
Δ	0.103		
◊	0.165		
□	0.320		

PARAMETRIC VALUES			
ALPHAB	= 0.910	MACH	4.940
ALPHAI	0.000	ORBPOW	100.000
BSTPOW	50.000		

REFERENCE FILE

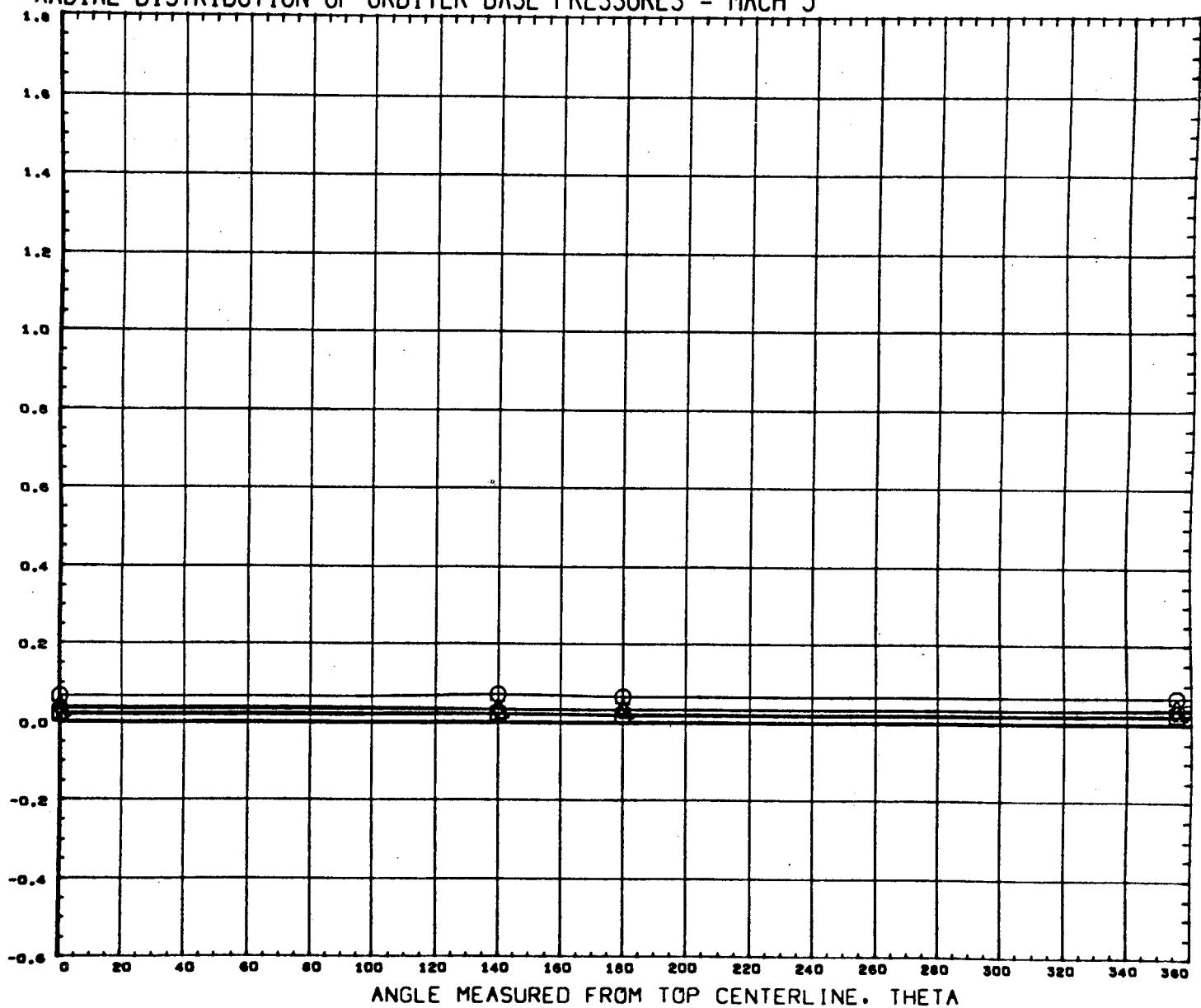
AEDC VA1163 MDAC ORBITER (BASE)

• IT8531 •

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RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL	DELTA X	X/L	DELTA Z
○	- 0.390	1.000	0.120
□	- 0.143		
△	- 0.020		
◆	0.103		
◆	0.227		
◆	0.390		

REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

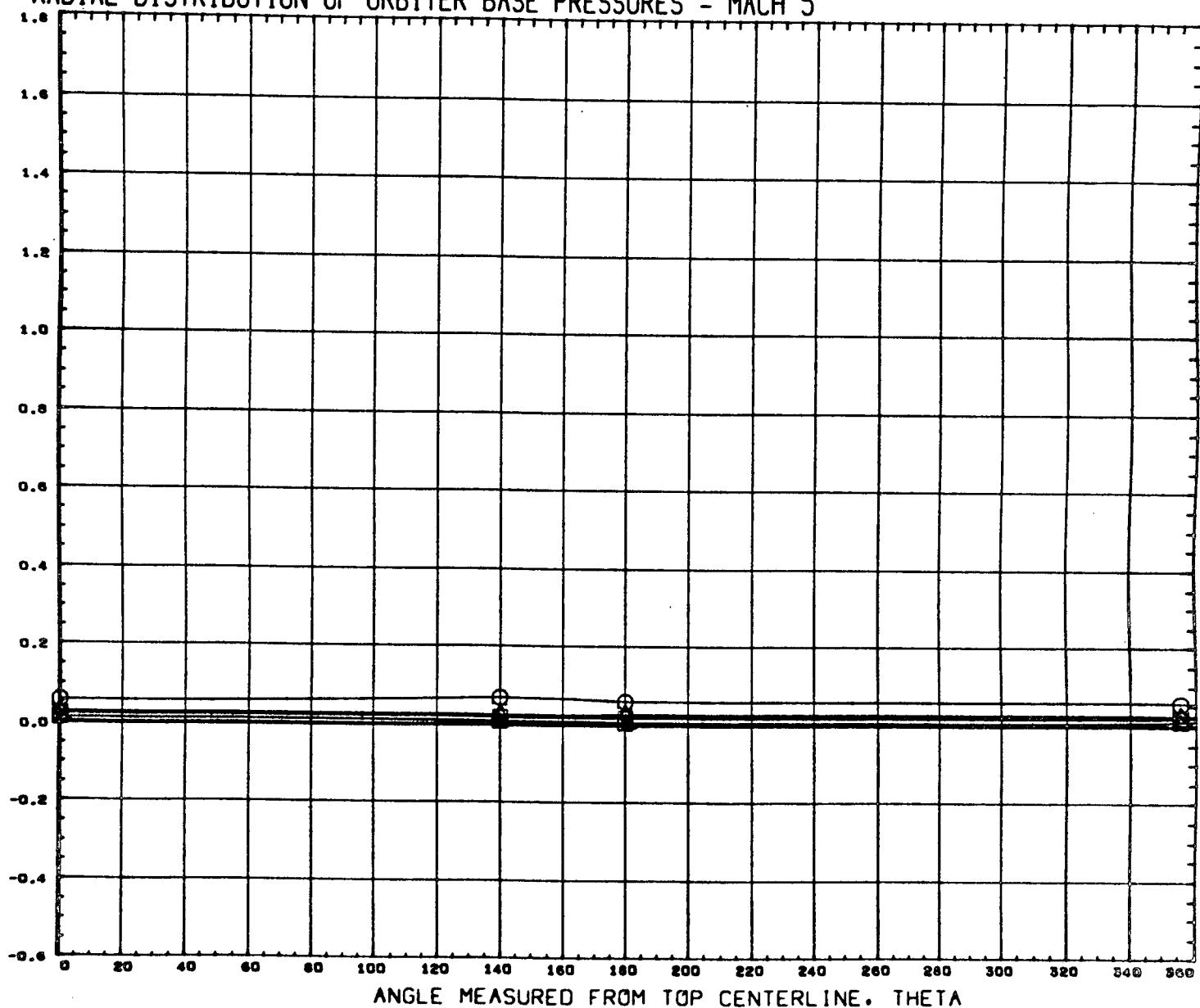
PARAMETRIC VALUES		
ALPHAB	- 9.916	MACH 4.940
ALPHAT	0.000	ORBPOW 100.000
BSTPOW	50.000	

• IT8531 •

PAGE 1029

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



SYMBOL DELTAX X/L DELTAZ

- 0.390 1.000 0.151
- 0.143
- 0.020
- ◊ 0.103
- ◊ 0.227
- 0.350

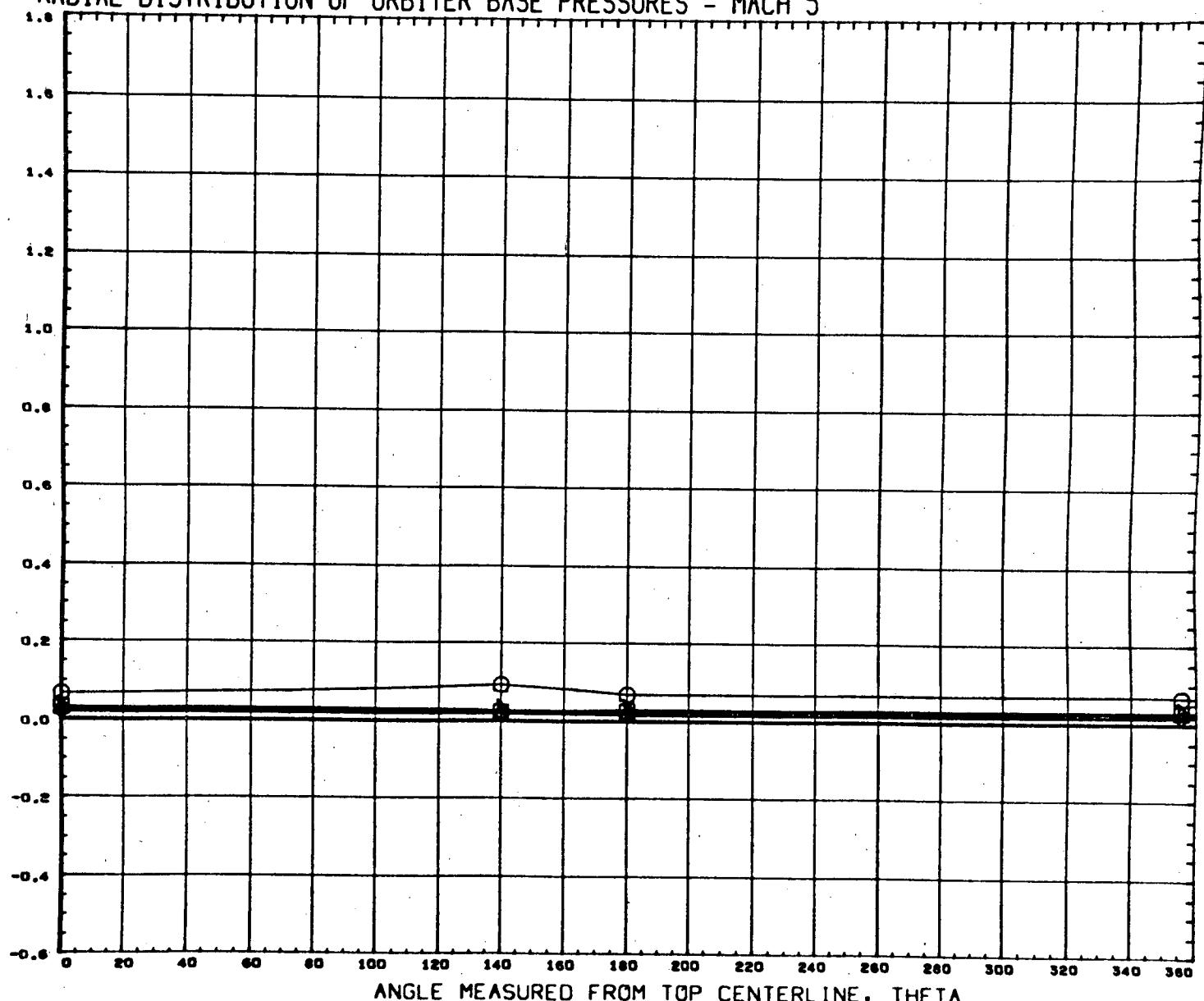
REFERENCE FILE

PARAMETRIC VALUES

	ALPHAB	MACH	ORBPOW
ALPHAI	9.918	4.940	100.000
BSTPOW	0.000		50.000

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL	DELTA X	X/L	DELTA Z
-	0.390	1.000	0.226
-	0.143		
-	0.020		
-	0.103		
-	0.227		
-	0.350		

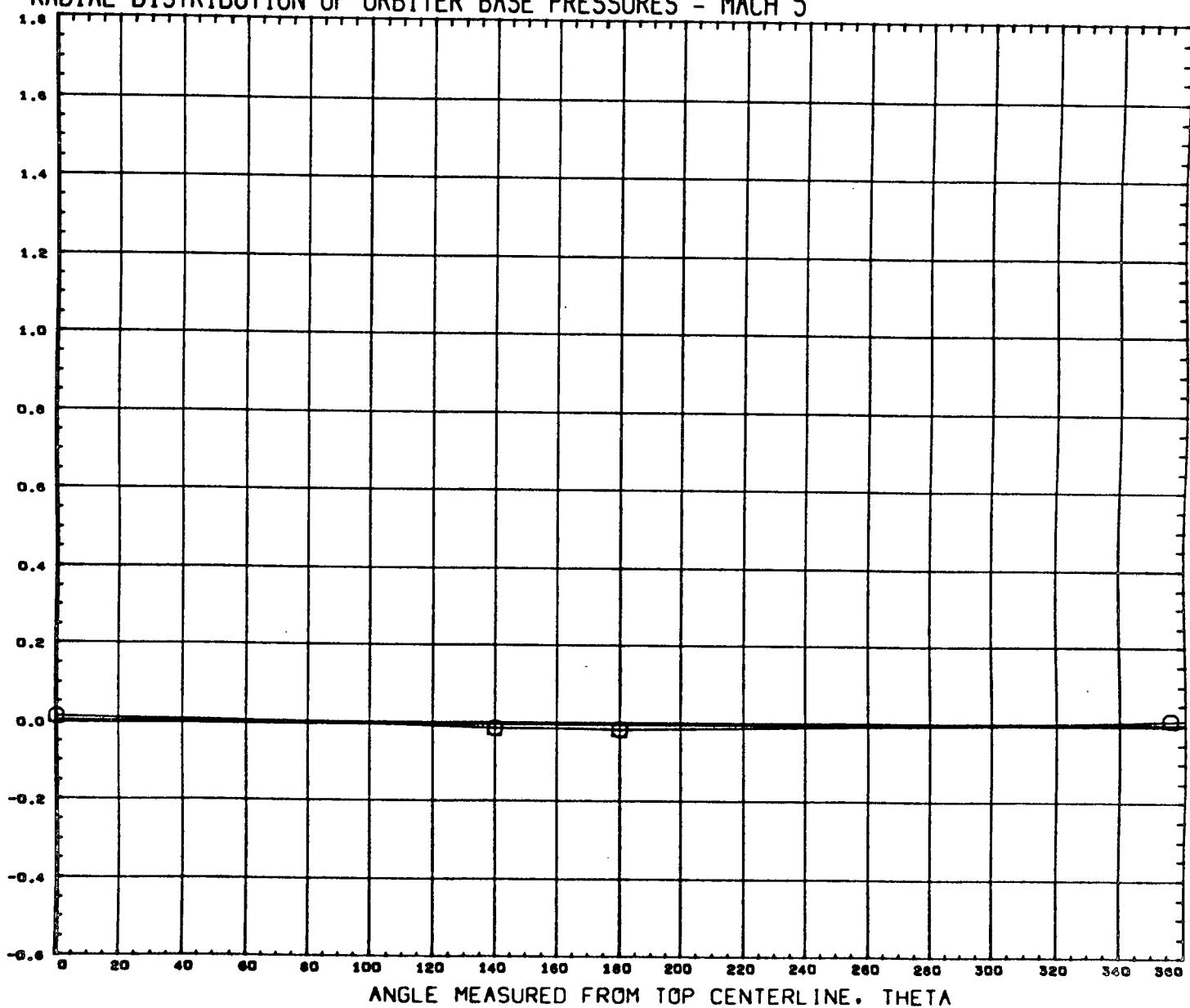
REFERENCE FILE

ANGLE MEASURED FROM TOP CENTERLINE. THETA

PARAMETRIC VALUES	
ALPHAB	9.916
ALPHAI	0.000
BSTPOW	100.000
	50.000

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL DELTAX X/L DELTAZ
○ 0.920 1.000 0.908

PARAMETRIC VALUES			
ALPHAB	- 9.918	MACH	4.940
ALPHAI	0.000	ORBPOW	100.000
BSTPOW	50.000		

REFERENCE FILE

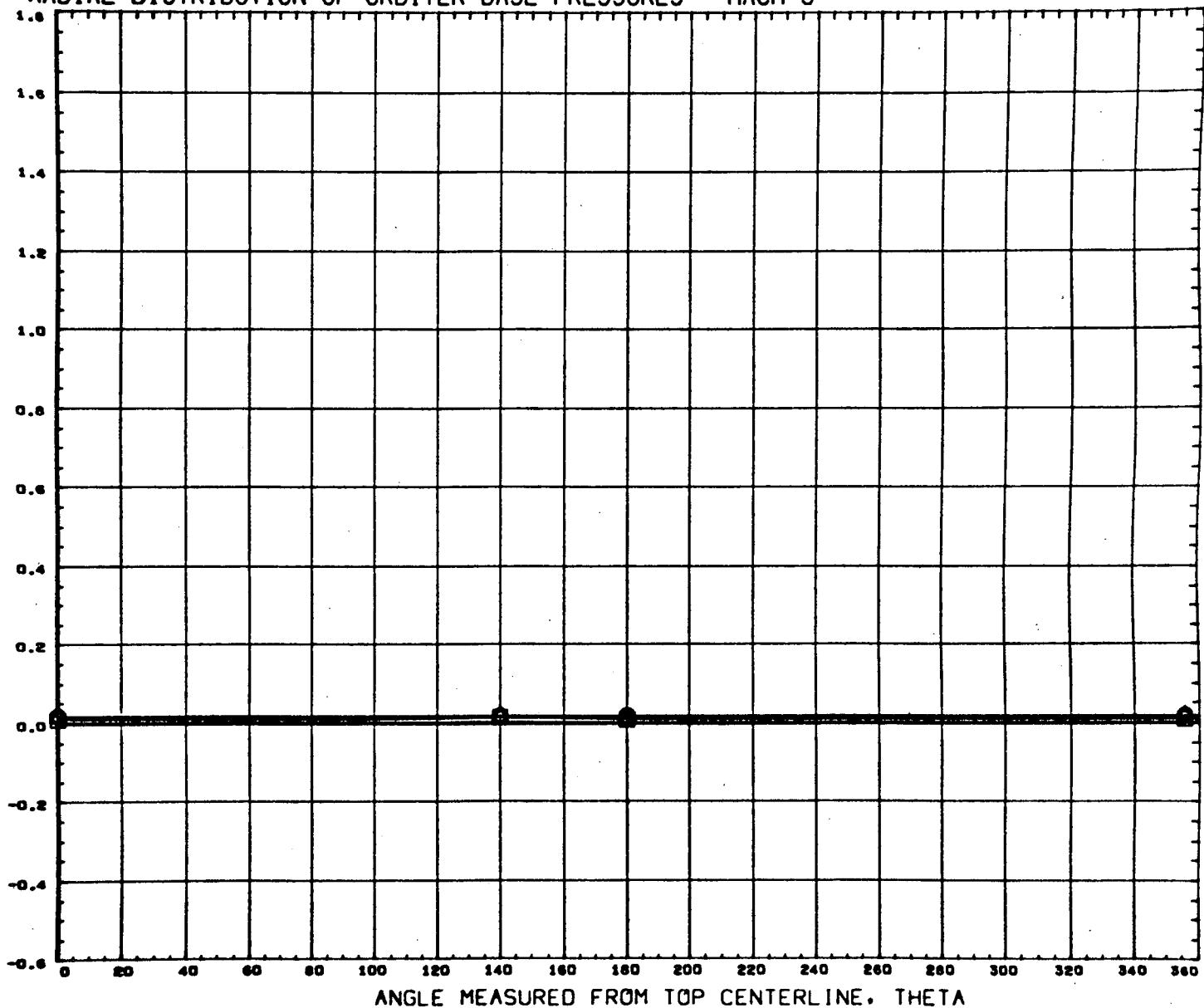
AEDC VA1163 MDAC ORBITER (BASE)

• IT8531 •

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RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



SYMBOL	DELTA X	X/L	DELTA Z
○	0.041	2.000	0.114
△	0.103		
◊	0.165		
□	0.350		

PARAMETRIC VALUES			
ALPHAB	- 5.000	MACH	4.940
ALPHAI	0.000	ORBPOW	100.000
BSTPOW	50.000		

REFERENCE FILE

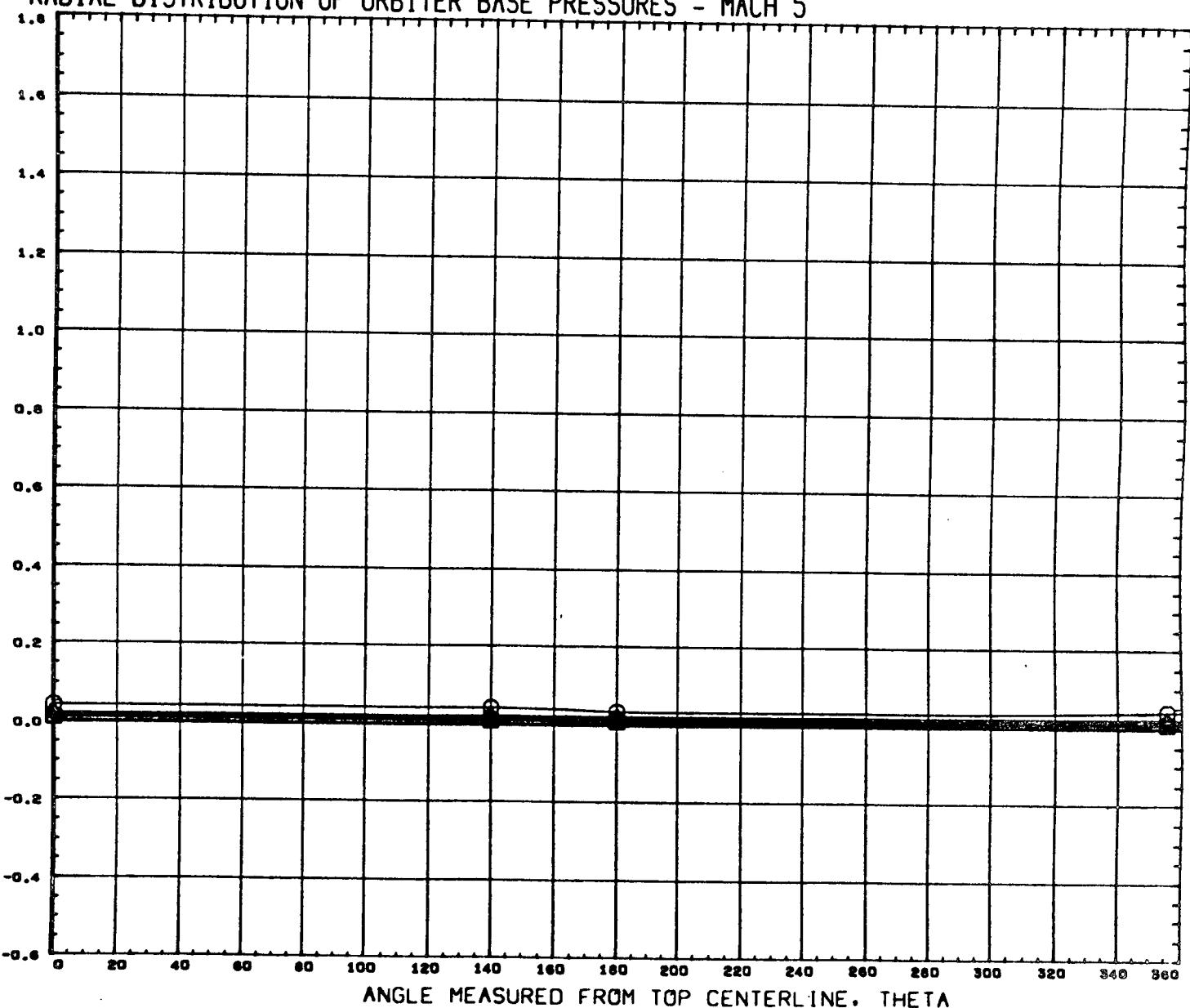
AEDC VA1163 MDAC ORBITER (BASE)

• IT8532 •

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RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP

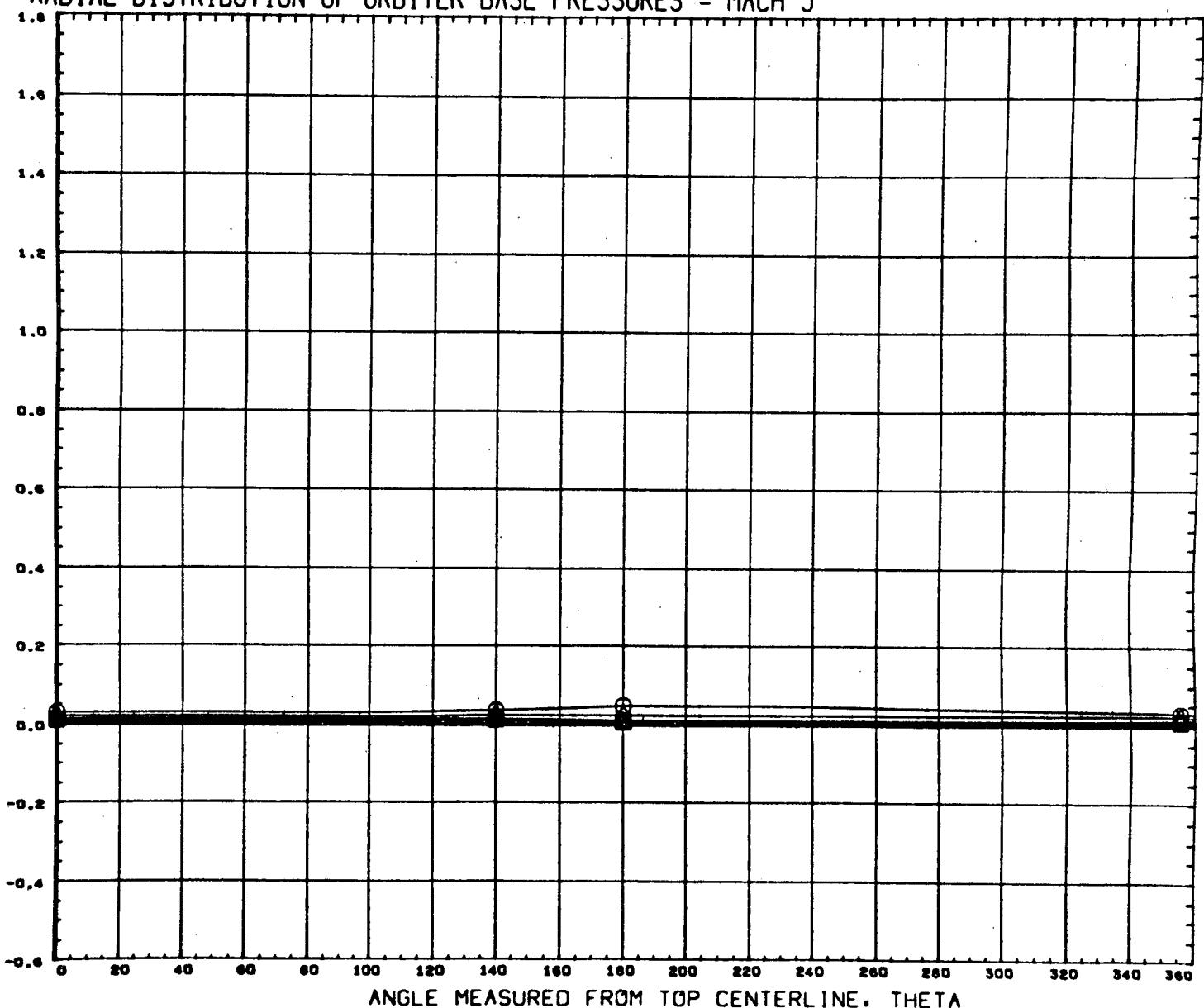


SYMBOL DELTAX X/L DELTAZ
 - 0.390 1.000 0.120
 - 0.143
 - 0.020
 0.103
 0.227
 0.390 REFERENCE FILE

PARAMETRIC VALUES
 ALPHAB = 5.090 MACH = 4.940
 ALPHAI = 0.000 ORBPOW = 100.000
 BSTPOW = 50.000

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



ANGLE MEASURED FROM TOP CENTERLINE, THETA

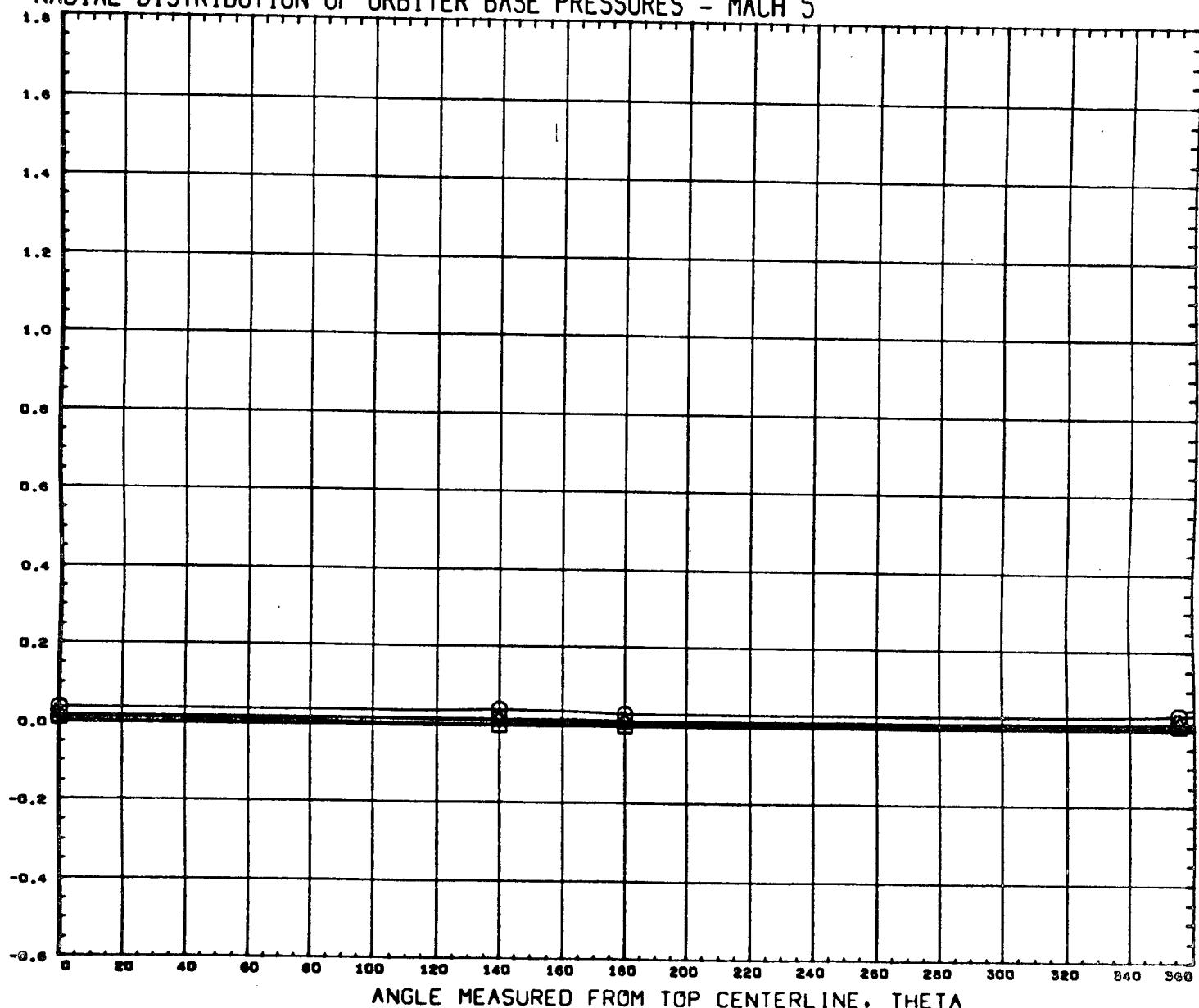
SYMBOL	DELTA X	X/L	DELTA Z
-	0.390	1.000	0.151
-	0.143		
-	0.020		
0.103			
0.227			
0.350			

REFERENCE FILE

PARAMETRIC VALUES				
ALPHAB	=	5.090	MACH	4.940
ALPHAI	=	0.000	ORBPOW	100.000
BSTPOW	=	50.000		

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP

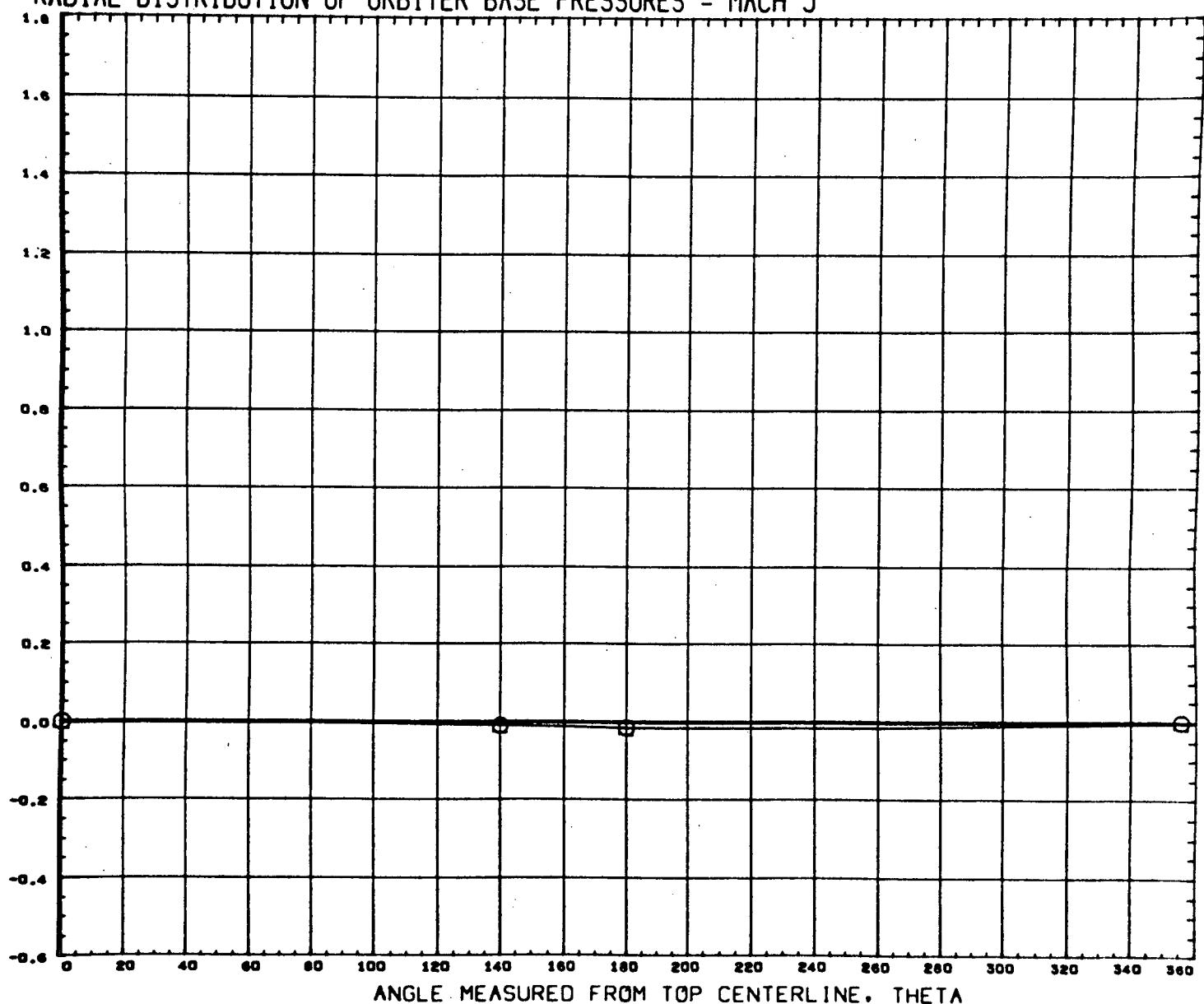


SYMBOL DELTAX X/L DELTAZ
 - 0.390 1.000 0.226
 - 0.143
 - 0.020
 0.100
 0.227
 0.350 REFERENCE FILE

PARAMETRIC VALUES
 ALPHAB = 5.000 MACH = 4.940
 ALPHAI = 0.000 ORBPON = 100.000
 BBTPOW = 50.000

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL DELTAX X/L DELTAZ

○ 0.920 1.000 0.906

PARAMETRIC VALUES

ALPHAB	- 5.090	MACH	4.940
ALPHAI	0.000	ORBPOW	100.000
BSTPOW	50.000		

REFERENCE FILE

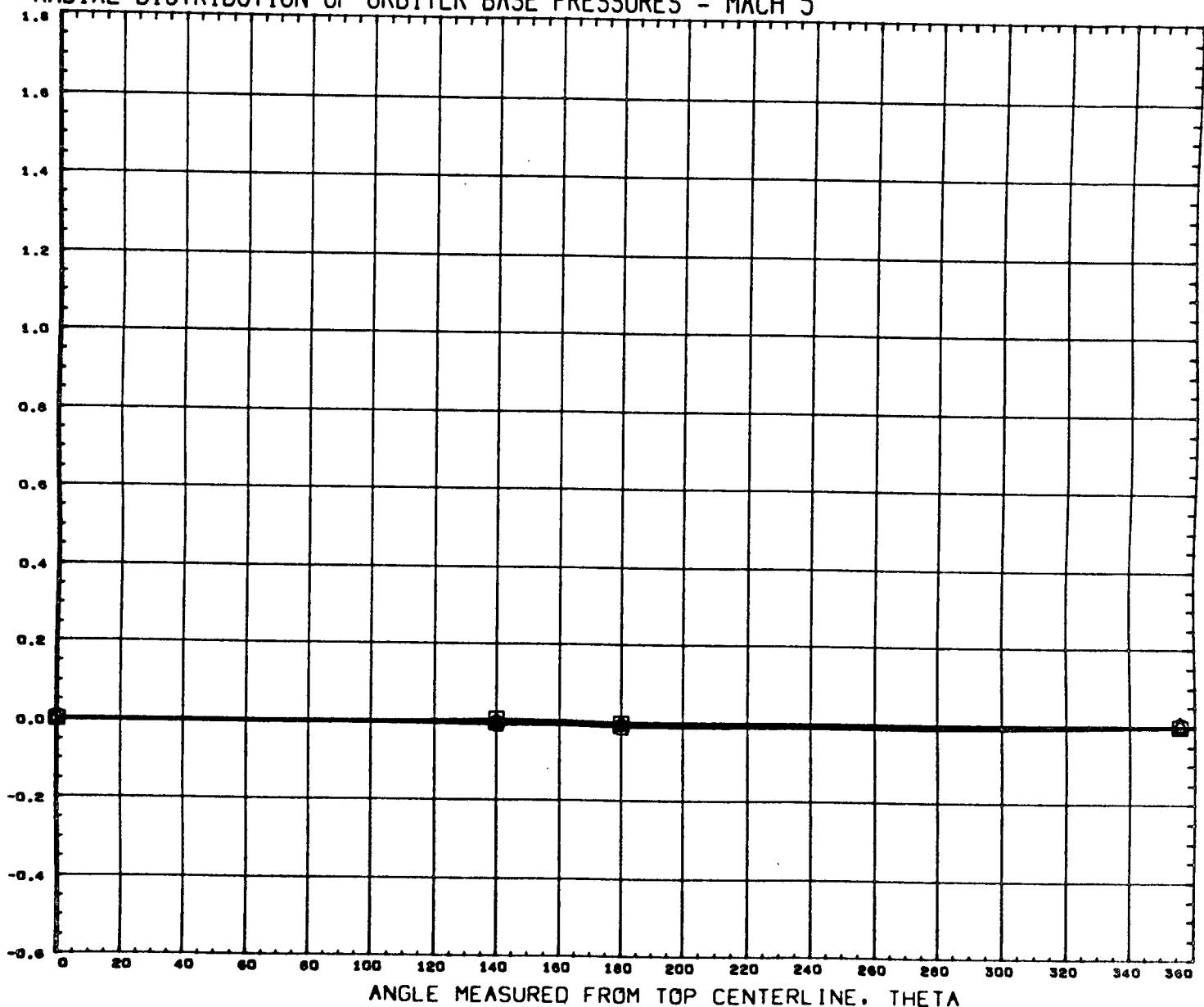
AEDC VA1163 MDAC ORBITER (BASE)

•IT8532•

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RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



SYMBOL	DELTA X	X/L	DELTA Z
○	0.041	1.000	0.114
△	0.103		
◊	0.165		
□	0.390		

PARAMETRIC VALUES			
ALPHAB	0.039	MACH	4.940
ALPHAI	0.000	ORBPOW	100.000
BSTPOW	50.000		

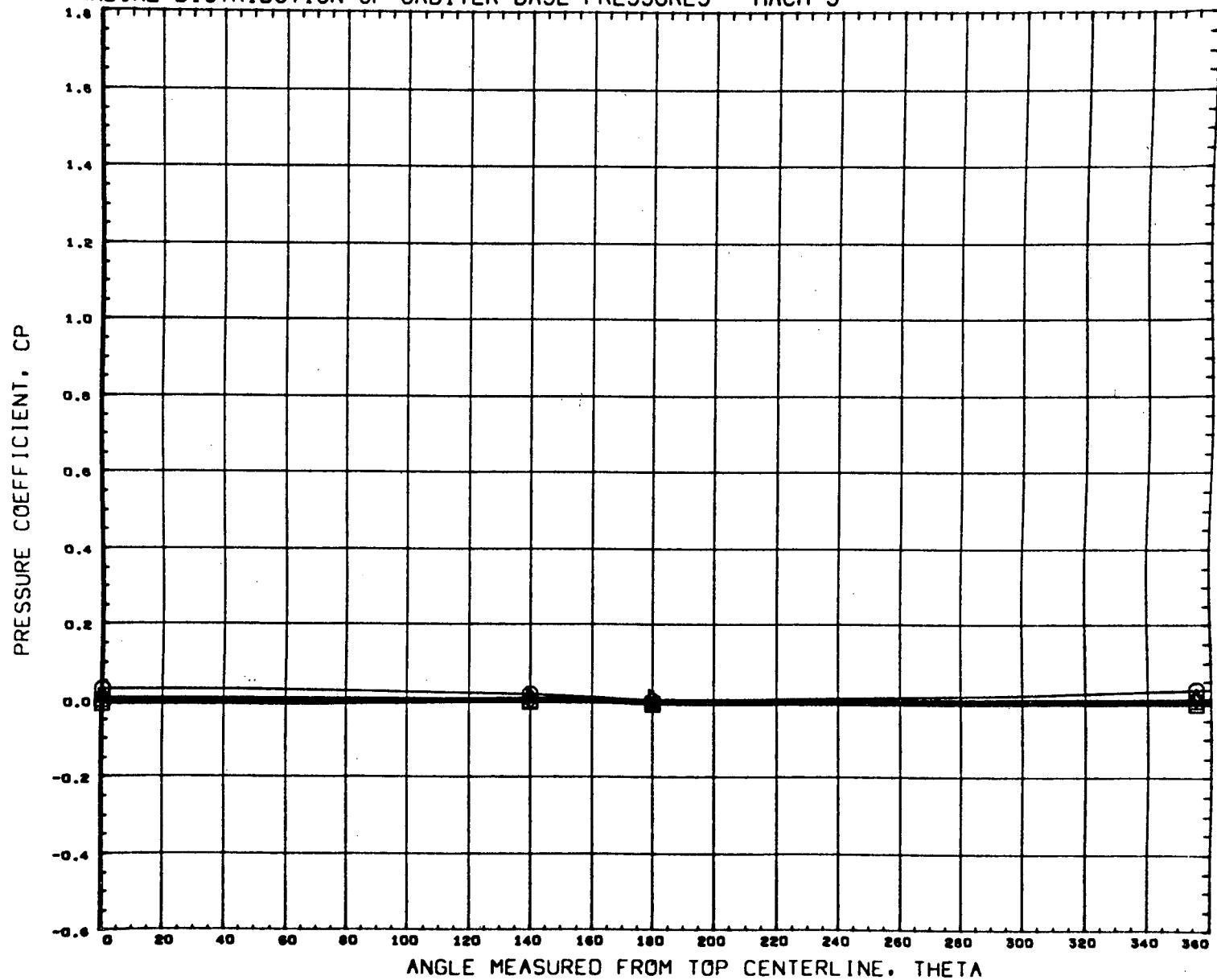
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

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RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



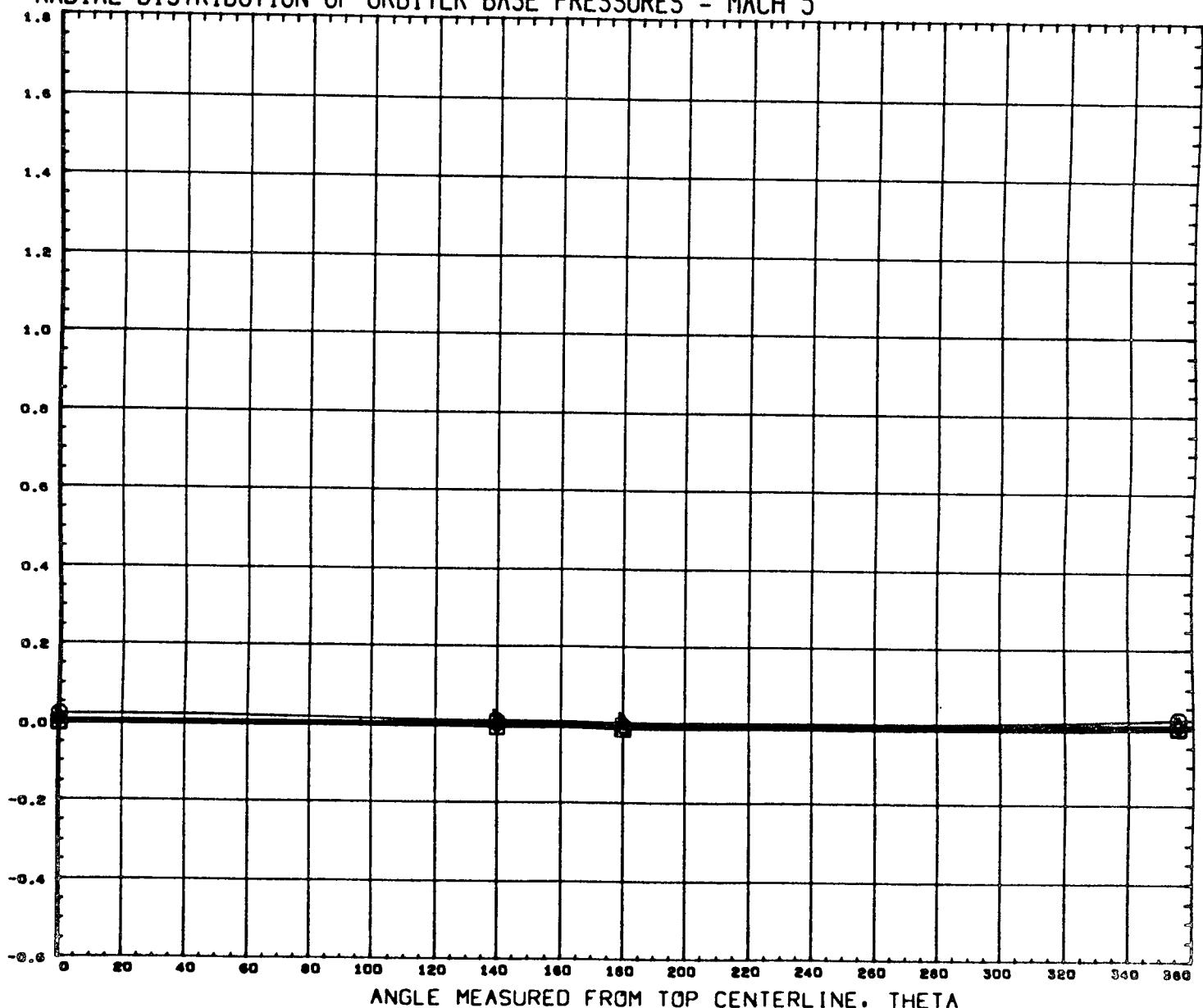
SYMBOL	DELTA X	X/L	DELTA Z
-	0.390	1.000	0.120
-	0.143		
-	0.020		
+	0.103		
+	0.227		
+	0.390		

REFERENCE FILE

PARAMETRIC VALUES		
ALPHAB	0.039	MACH 4.940
ALPHAI	0.000	ORBPOW 100.000
BSTPOW	50.000	

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



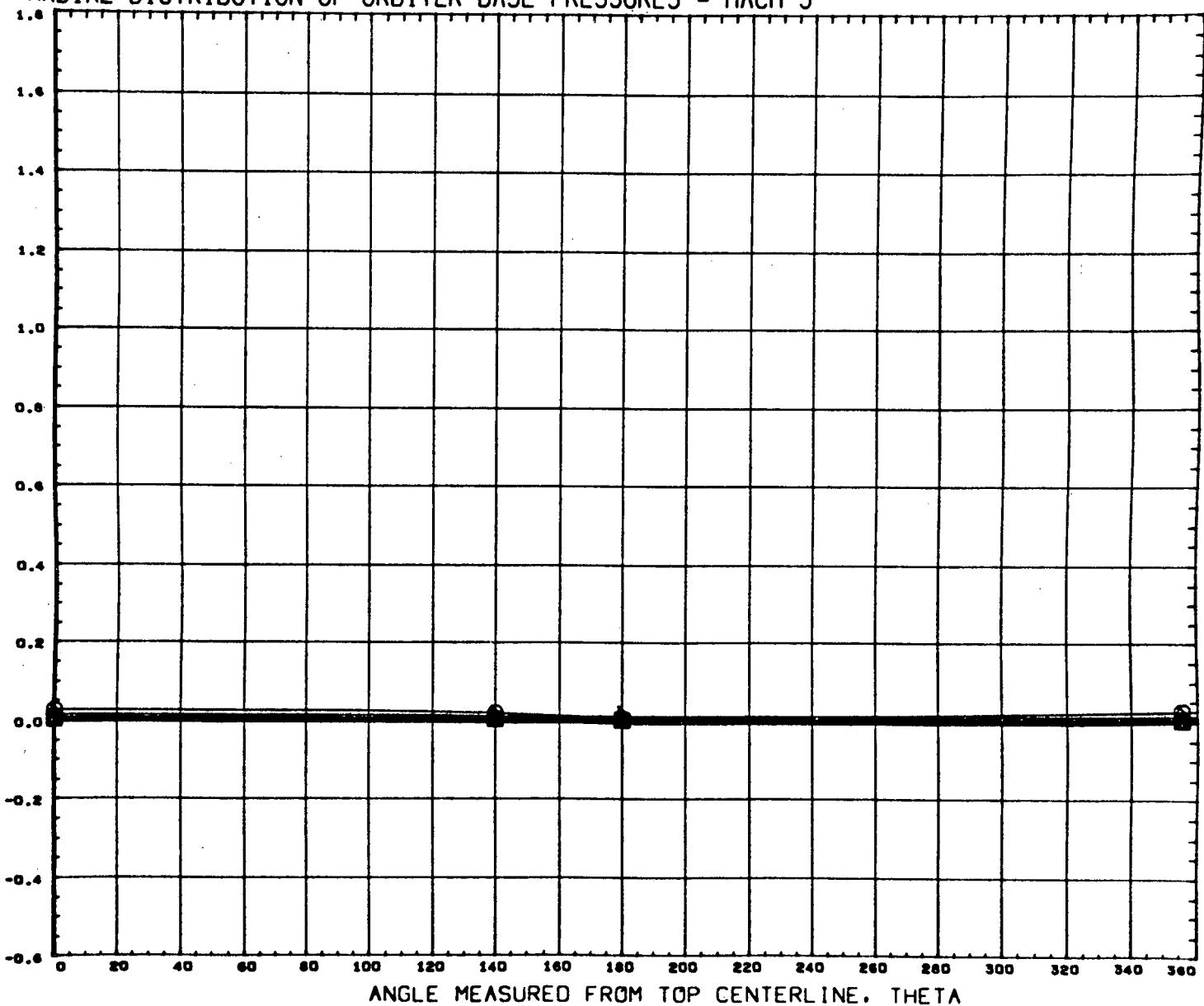
SYMBOL DELTAX X/L DELTAZ
 - 0.390 1.000 0.151
 - 0.143
 - 0.020
 0.103
 0.227
 0.390 REFERENCE FILE

PARAMETRIC VALUES

	ALPHAB	MACH
ALPHAI	0.039	4.940
ORBPOW	0.000	100.000
BSTPOW	50.000	

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL DELTAX X/L DELTAZ
 - 0.390 1.000 0.226
 - 0.143
 - 0.020
 0.103
 0.227
 0.350 REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

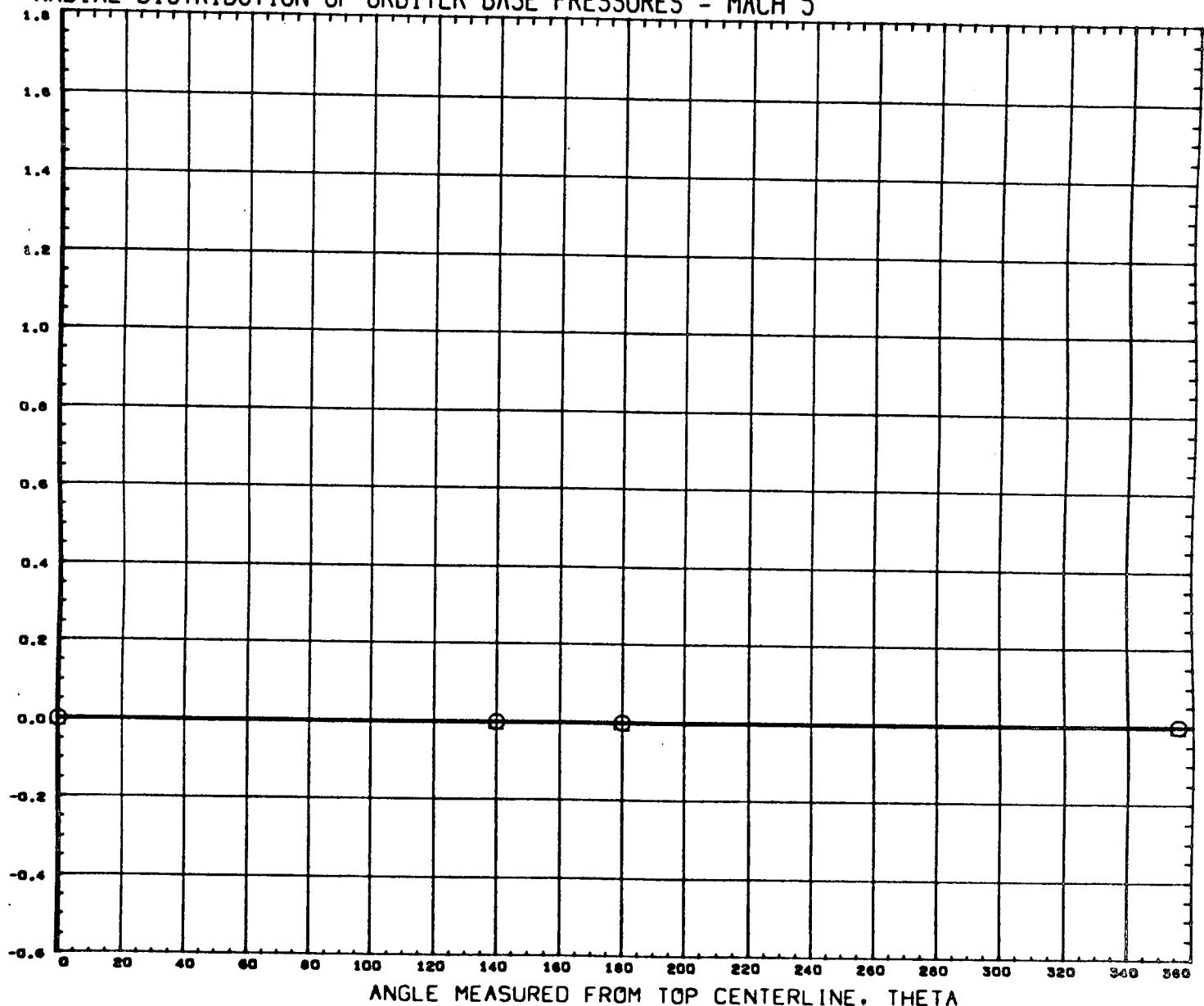
PARAMETRIC VALUES			
ALPHAB	0.039	MACH	4.940
ALPHAI	0.000	ORBPOW	100.000
BSTPOW	50.000		

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PRESSURE COEFFICIENT. CP

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL : DELTAX X/L DELTAZ
C 0.920 1.000 0.900

PARAMETRIC VALUES

ALPHAB	0.039	MACH	4.940
ALPHAI	0.000	ORBPOW	100.000
BSTPOW	50.000		

REFERENCE FILE

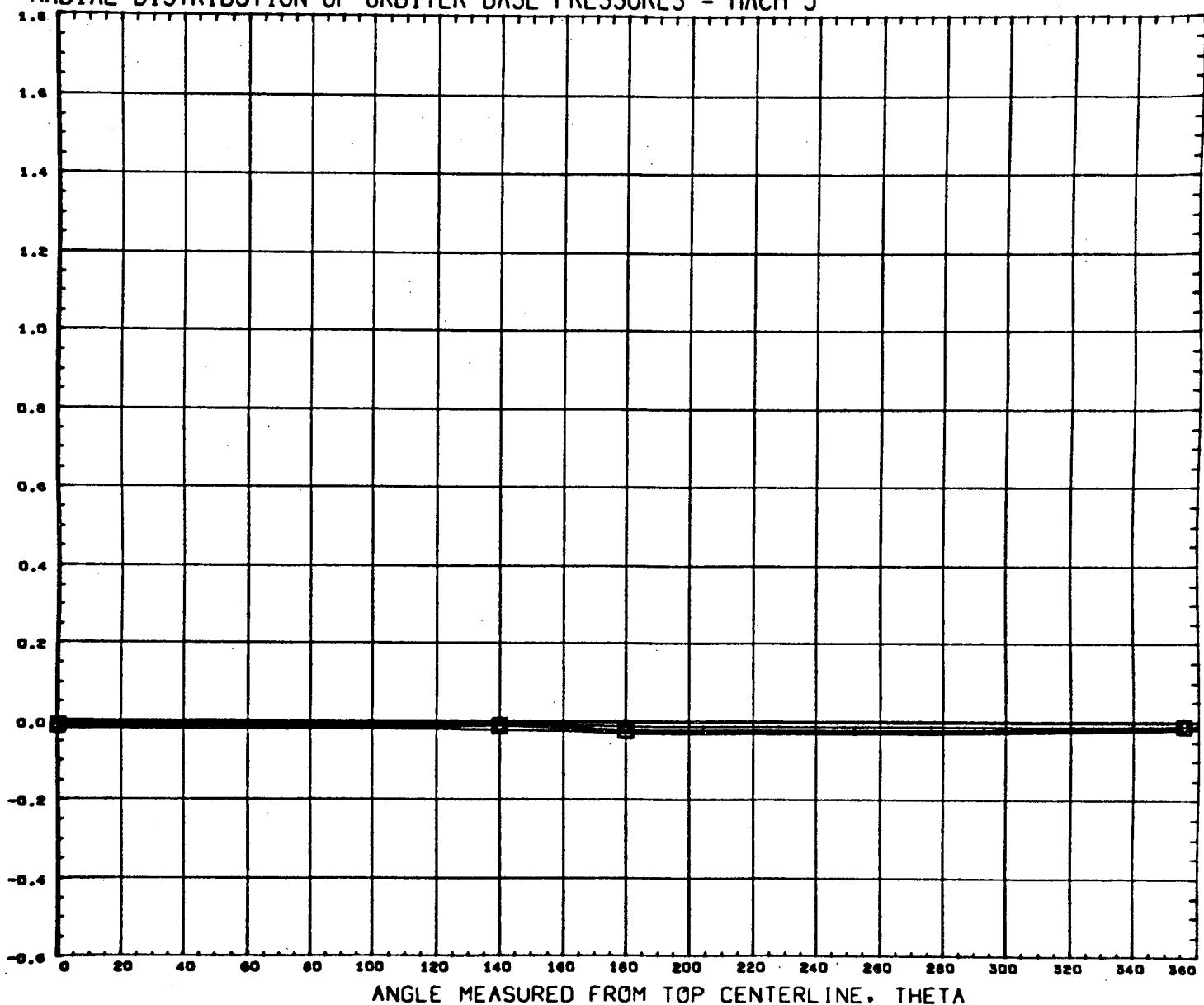
AEDC VA1163 MDAC ORBITER (BASE)

• IT8533 •

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RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



SYMBOL	DELTA X	X/L	DELTA Z
△	0.041	1.000	0.114
◊	0.103		
○	0.169		
□	0.390		

PARAMETRIC VALUES			
ALPHAB	5.067	MACH	4.940
ALPHAI	0.000	ORBPOW	100.000
BSTPOW	50.000		

REFERENCE FILE

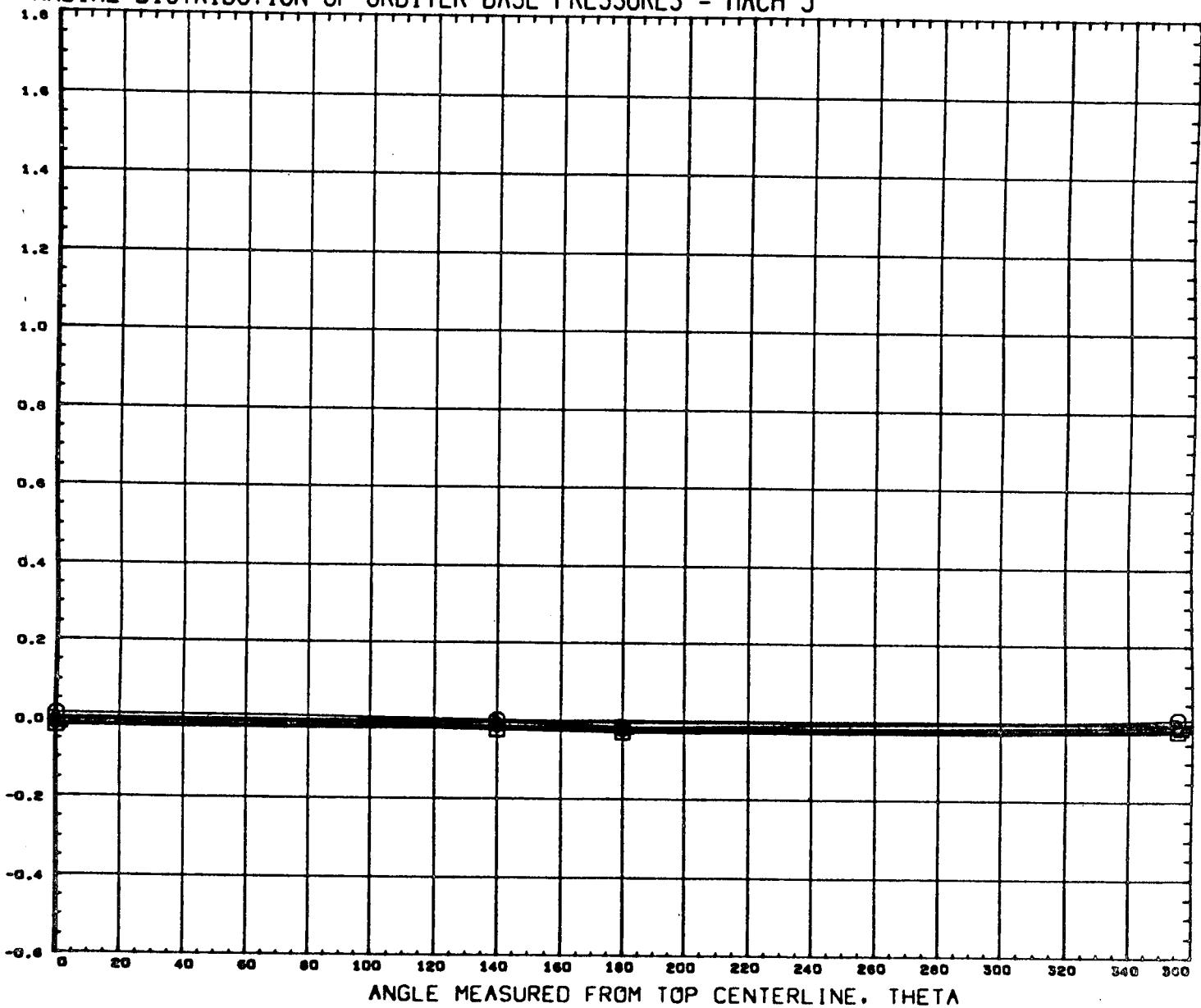
AEDC VAI163 MDAC ORBITER (BASE)

•1T8534•

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RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL DELTAX X/L DELTAZ

- 0.390 1.000 0.120

- 0.143

- 0.020

0.103

0.227

0.350

REFERENCE FILE

PARAMETRIC VALUES

ALPHAB	5.067	MACH	4.940
ALPHAI	0.000	ORBPOW	100,000
BSTPOW	50.000		

□ □ □ □ □

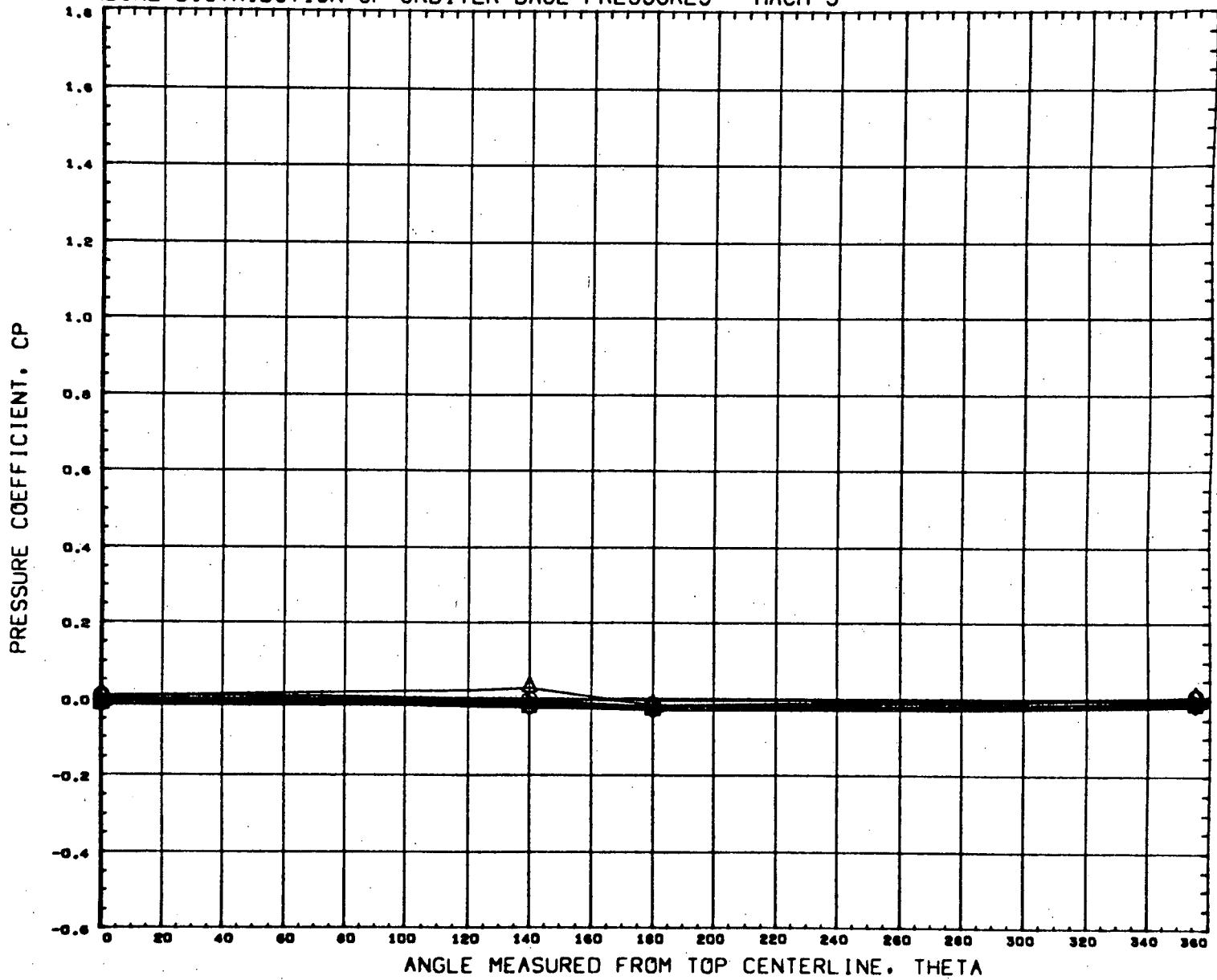
AEDC VA1163 MDAC ORBITER (BASE)

•IT8534•

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C.11

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



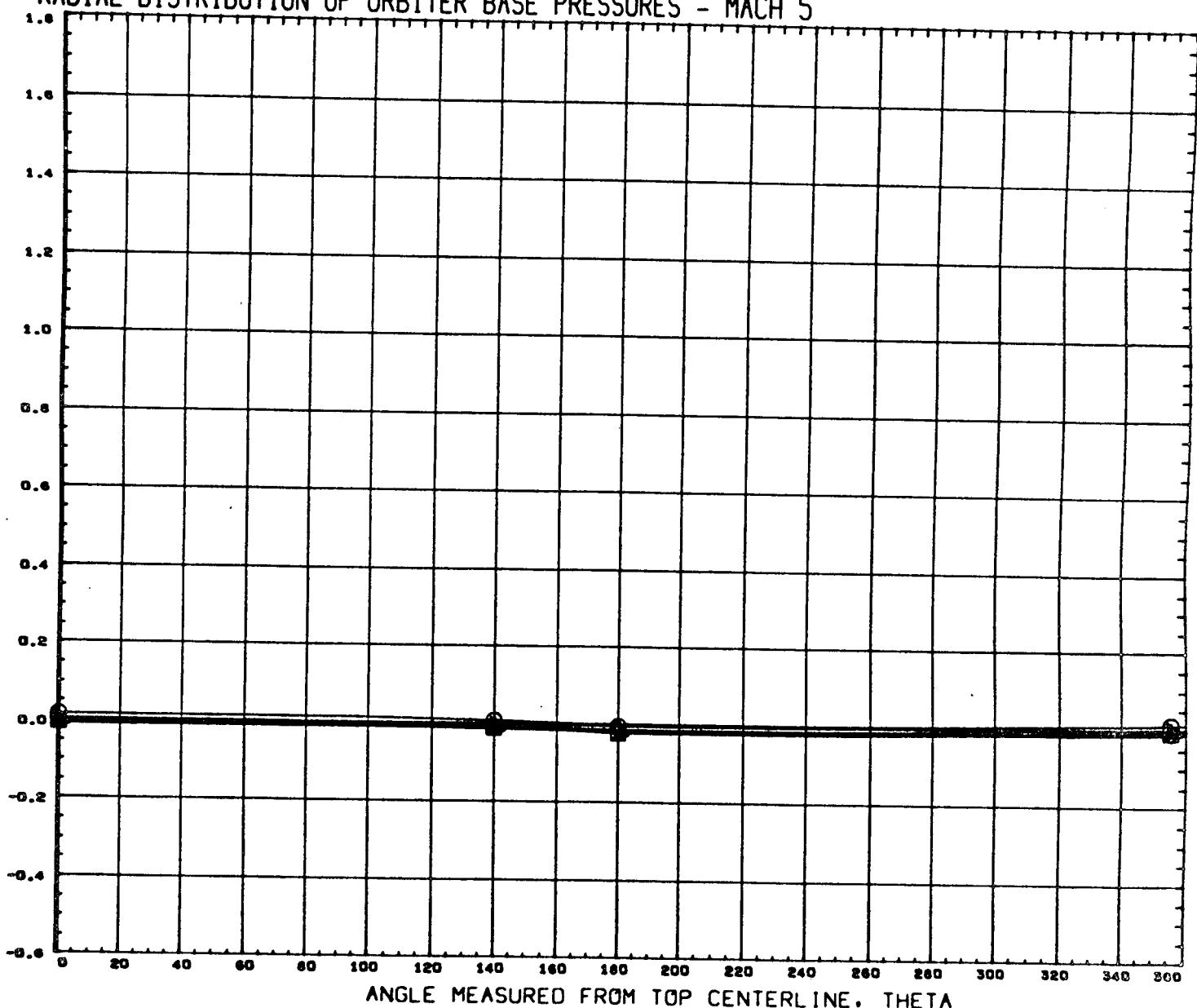
SYMBOL	DELTA X	X/L	DELTA Z
-	0.390	1.000	0.191
-	0.143		
-	0.020		
-	0.103		
-	0.227		
-	0.350		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	5.067	MACH	4.940
ALPHAI	0.000	ORBPOW	100.000
BSTPOW	90.000		

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL DELTAX X/L DELTAZ

- 0.390 1.000 0.226

- 0.143

- 0.020

0.103

0.227

0.350

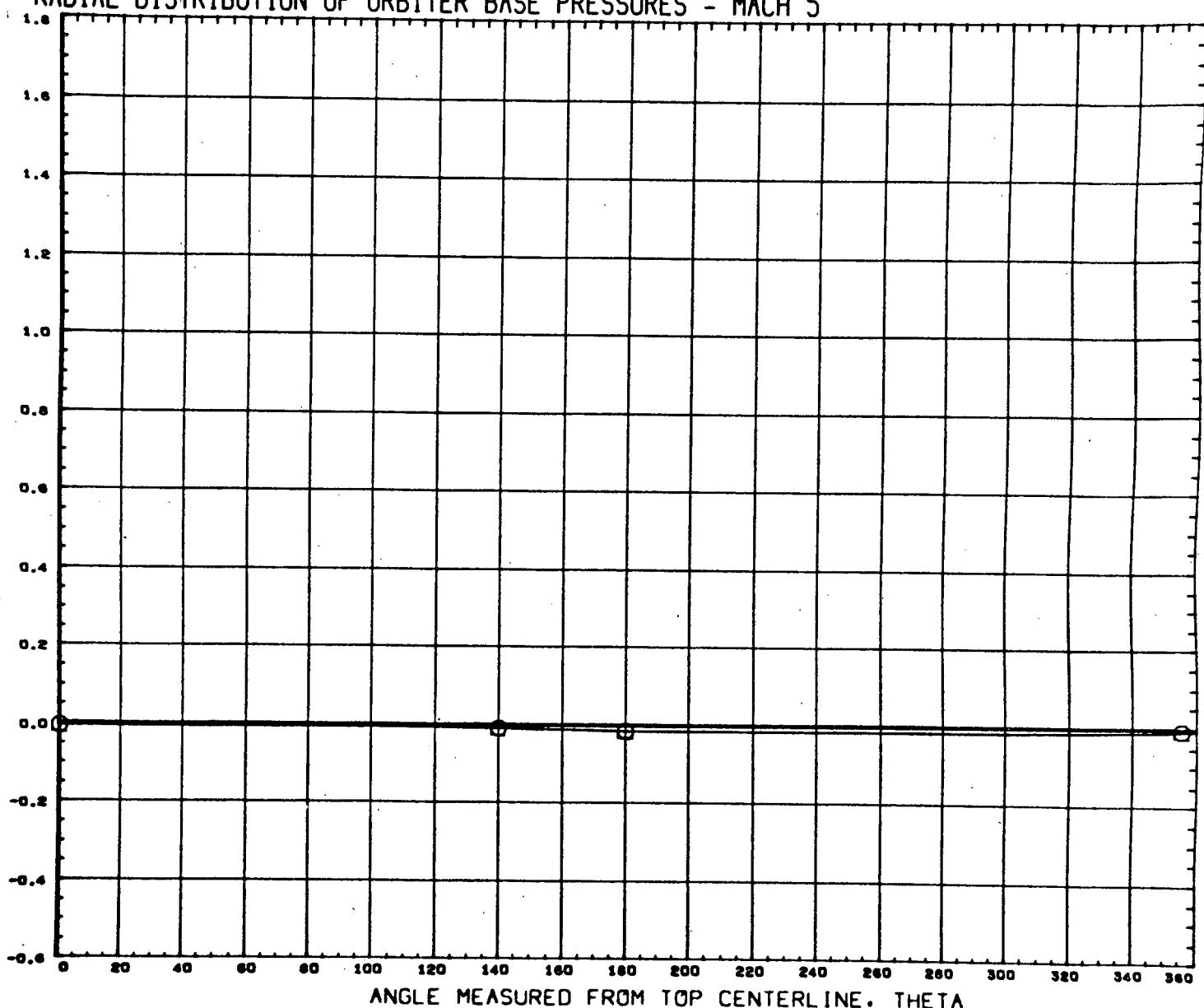
REFERENCE FILE

PARAMETRIC VALUES

ALPHAB	5.067	MACH	6.940
ALPHAI	0.000	ORBPOW	100.000
BSTPOW	50.000		

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL DELTAX X/L DELTAZ
○ 0.920 1.000 0.920

PARAMETRIC VALUES			
ALPHAB	3.067	MACH	4.940
ALPHAI	0.000	ORBPOW	100.000
BSTPOW	50.000		

REFERENCE FILE

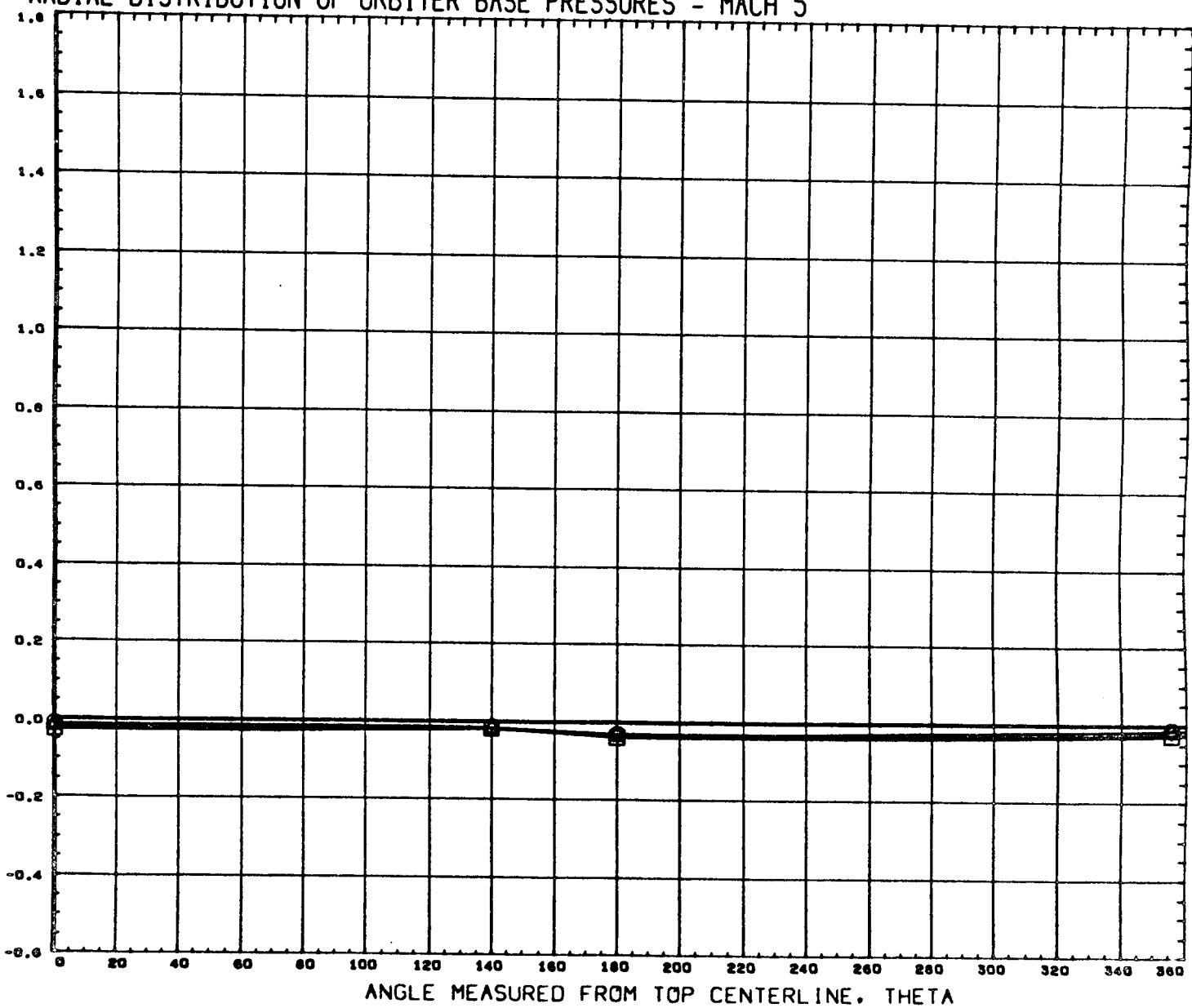
AEDC VA1163 MDAC ORBITER (BASE)

•IT8534•

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RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL	DELTA X	X/L	DELTA Z
□	0.048	1.000	0.114
△	0.103		
◊	0.165		
○	0.330		

PARAMETRIC VALUES		
ALPHAB	10.053	MACH
ALPHAI	0.000	ORBPOW
BSTPOW	50.000	4.940

REFERENCE FILE

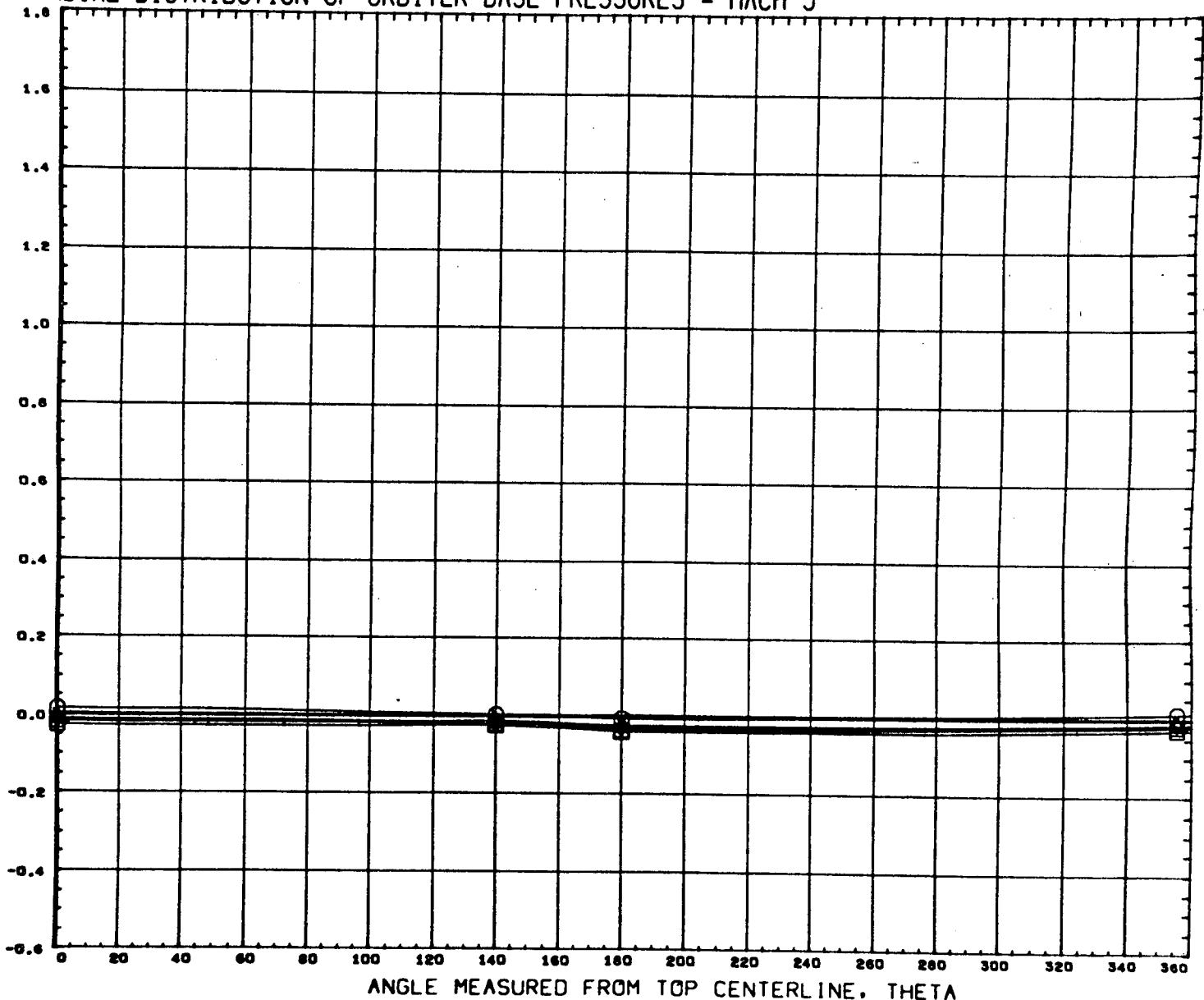
AEDC VA1163 MDAC ORBITER (BASE)

• IT8535 •

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RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



ANGLE MEASURED FROM TOP CENTERLINE, THETA

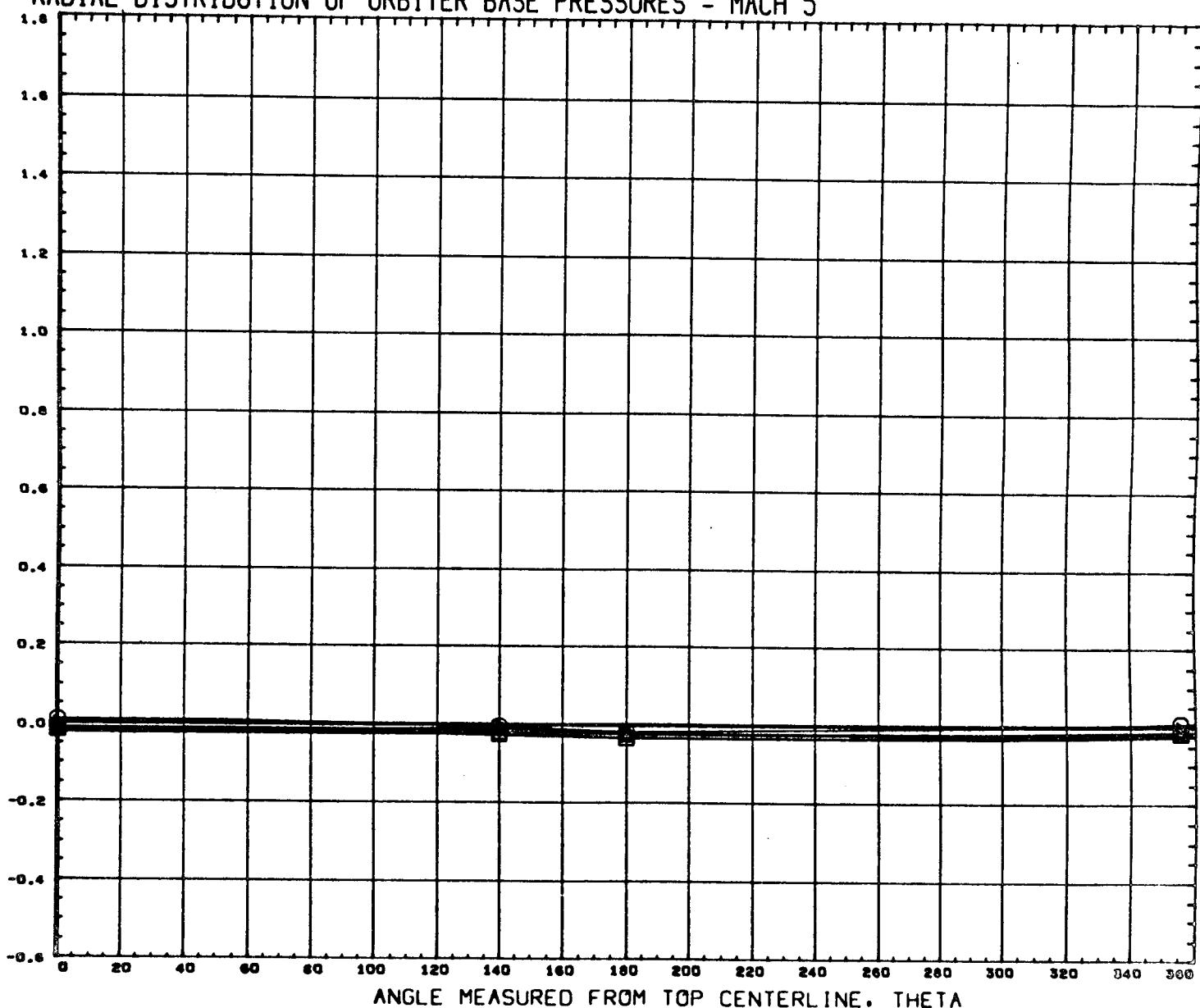
SYMBOL	DELTAX	X/L	DELTAZ
-	0.390	1.000	0.120
-	0.143		
-	0.020		
-	0.103		
-	0.227		
-	0.390		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	10.093	MACH	4.940
ALPHAT	0.000	ORBPOW	100.000
BSTPOW	50.000		

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



SYMBOL DELTAX X/L DELTAZ

- 0.390 1.000 0.151

- 0.143

- 0.020

0.103

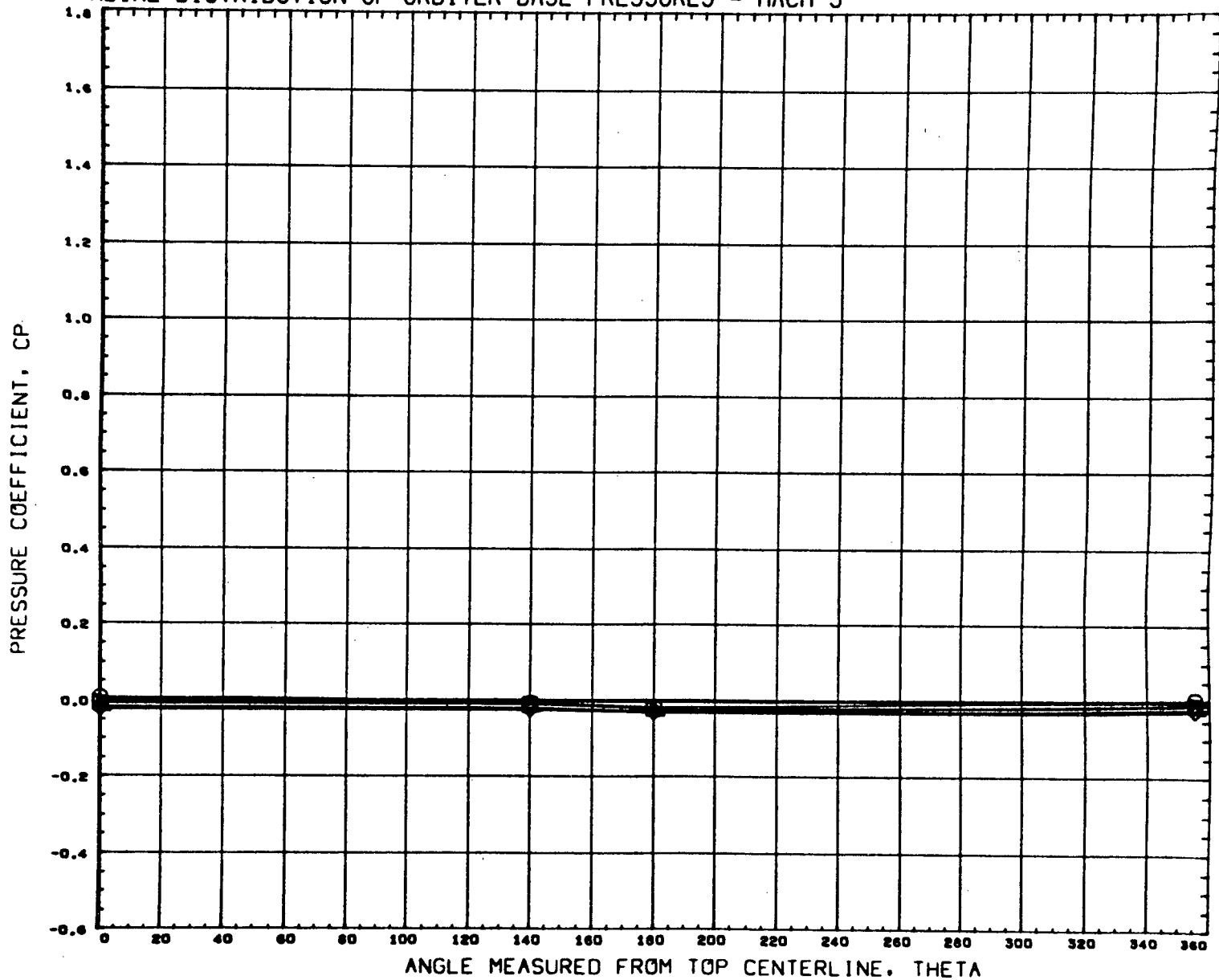
0.227

0.350 REFERENCE FILE

PARAMETRIC VALUES

ALPHAB	10.053	MACH	4.940
ALPHAI	0.000	ORBPOW	100.000
BSTPOW	50.000		

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

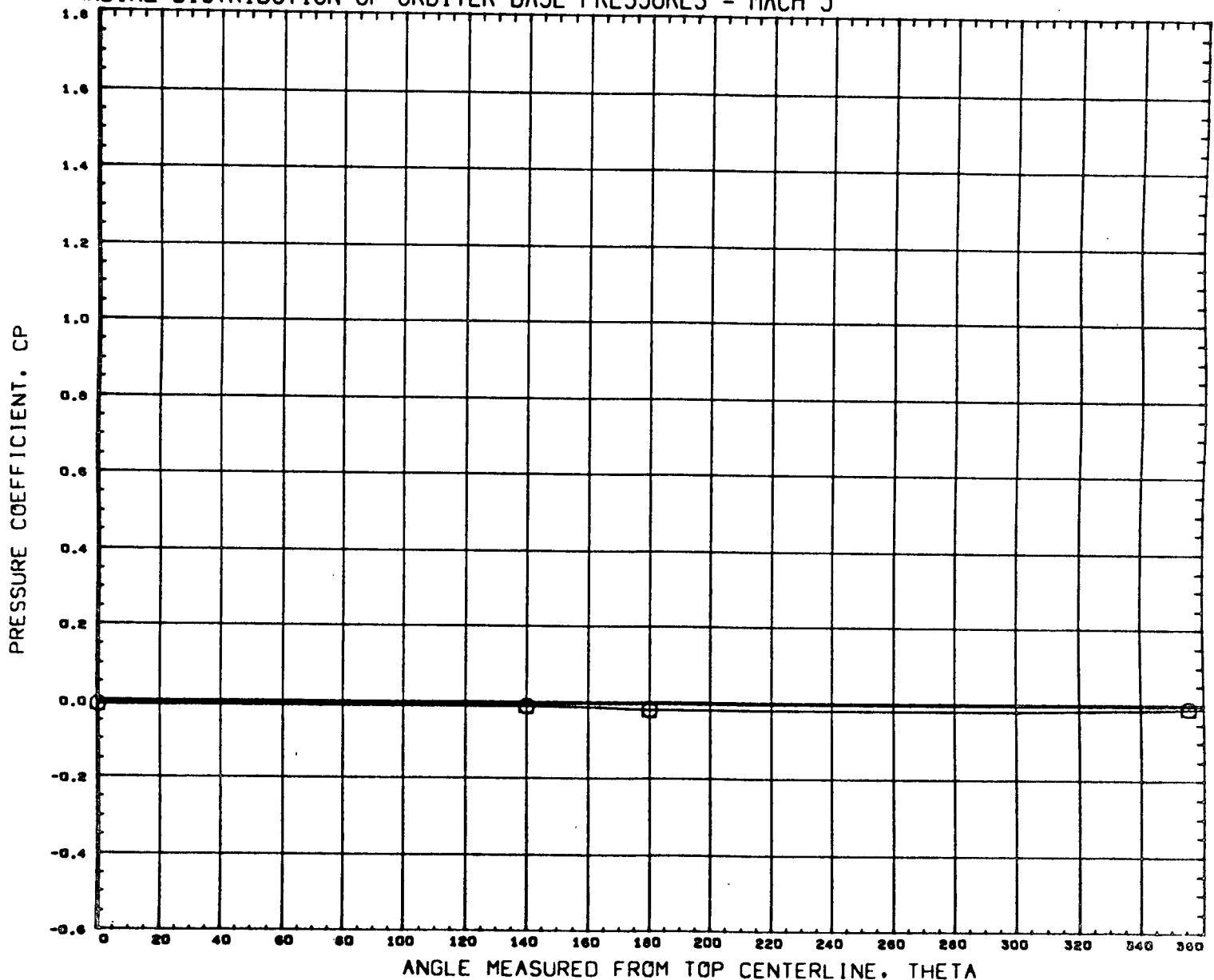


SYMBOL	DELTA X	X/L	DELTA Z
-	0.390	1.000	0.226
-	0.143		
-	0.020		
-	0.103		
-	0.227		
-	0.390		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	10.033	MACH	4.940
ALPHAI	0.000	ORBPOW	100.000
BSTPOW	50.000		

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL DELTAX X/L DELTAZ
C 0.920 1.000 0.908

PARAMETRIC VALUES			
ALPHAB	10.053	MACH	4.940
ALPHAI	0.000	ORBPOW	100.000
BSTPOW	50.000		

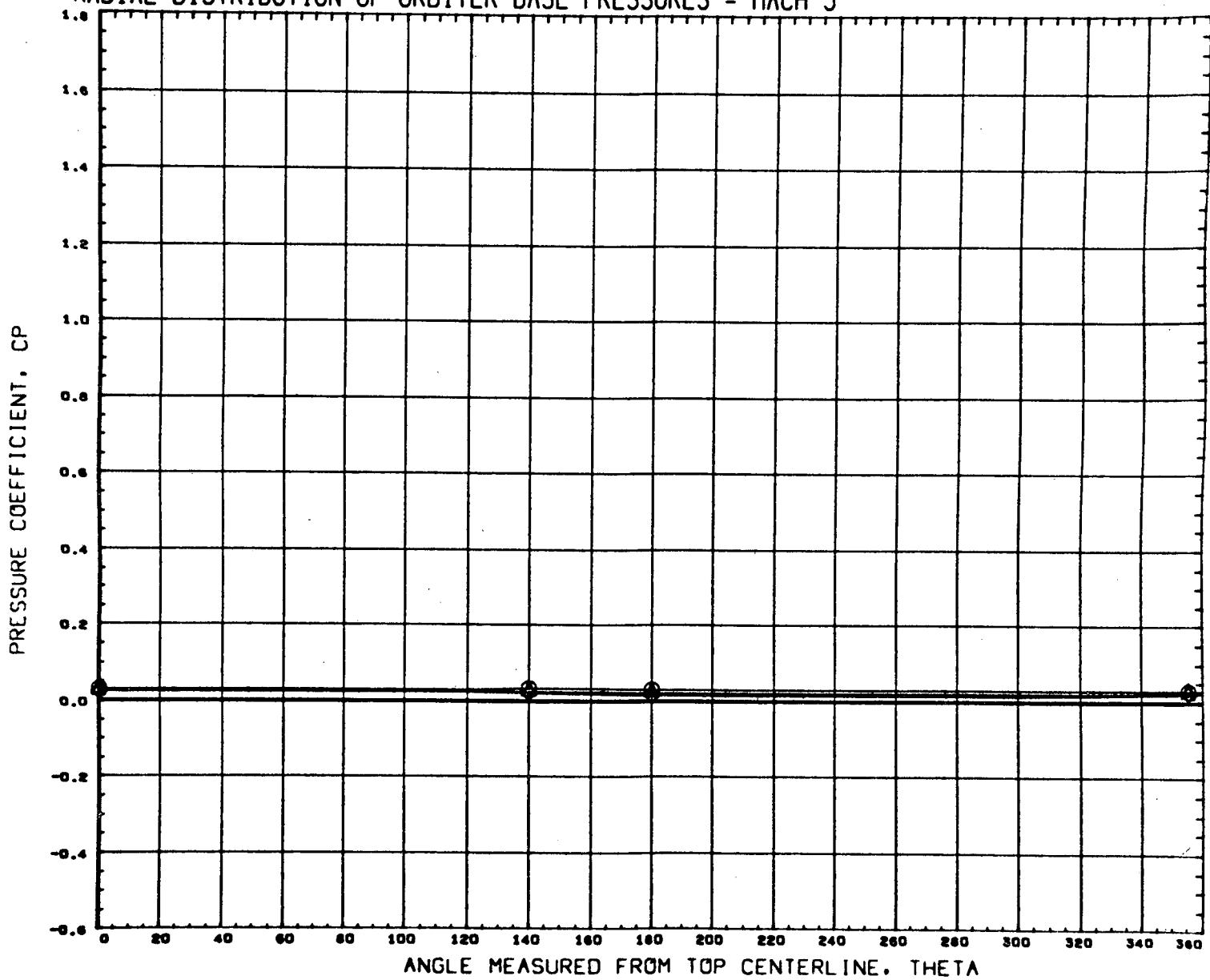
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

• IT8535 •

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RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL	DELTA X	X/L	DELTA Z
Δ	- 0.144	1.000	0.190
Δ	0.103		
\diamond	0.226		

PARAMETRIC VALUES			
ALPHAB	- 9.920	MACH	4.970
ALPHAI	9.000	ORBPOW	100.000
BSTPOW	50.000		

REFERENCE FILE

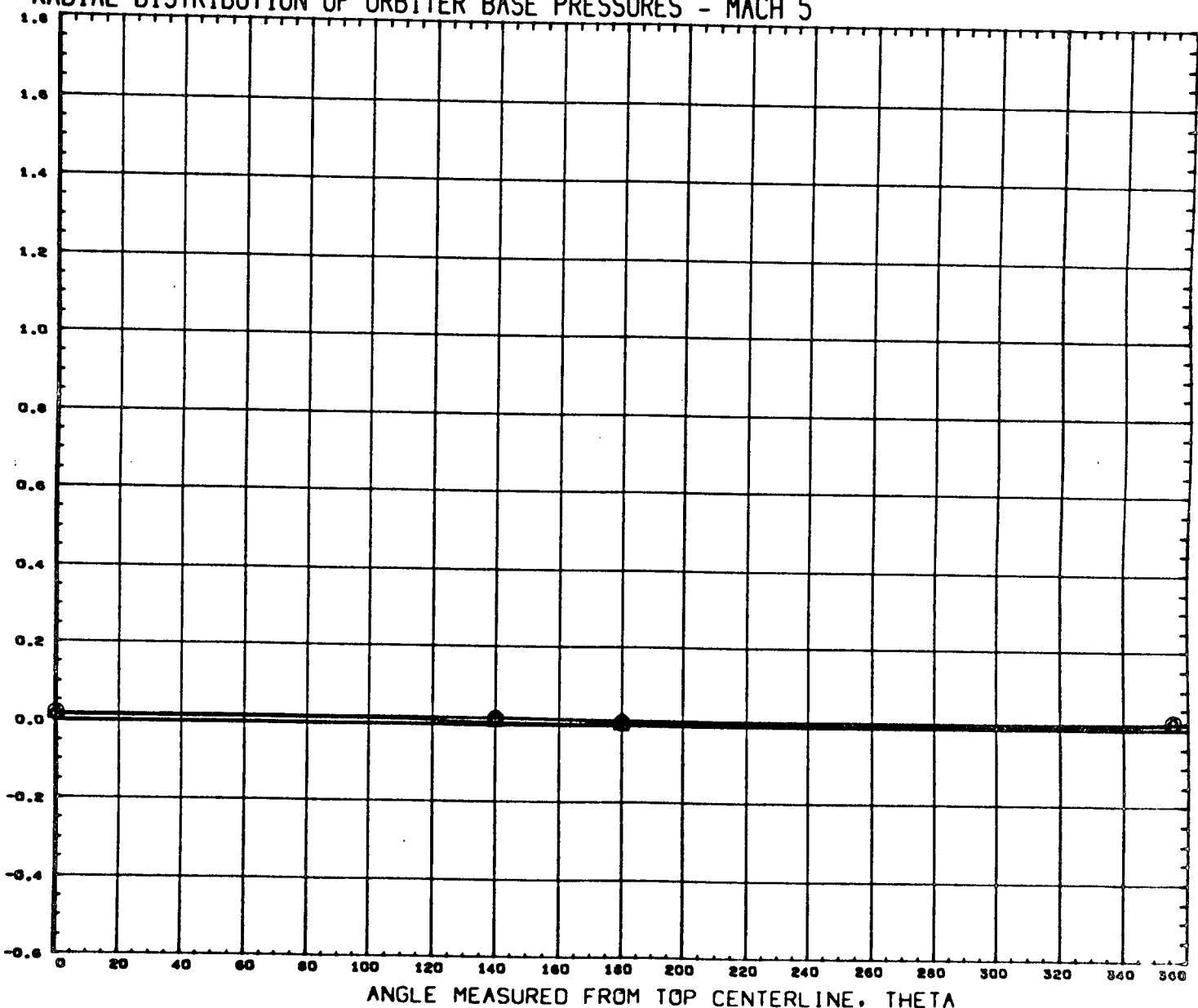
AEDC VA1163 MOAC ORBITER (BASE)

• IT8541 •

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RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



SYMBOL	DELTA X	X/L	DELTA Z
○	-	0.144	0.150
△		0.103	
◊		0.226	

PARAMETRIC VALUES	
ALPHAB	- 4.896
ALPHAT	5.000
BSTPOW	100.000
	50.000

REFERENCE FILE

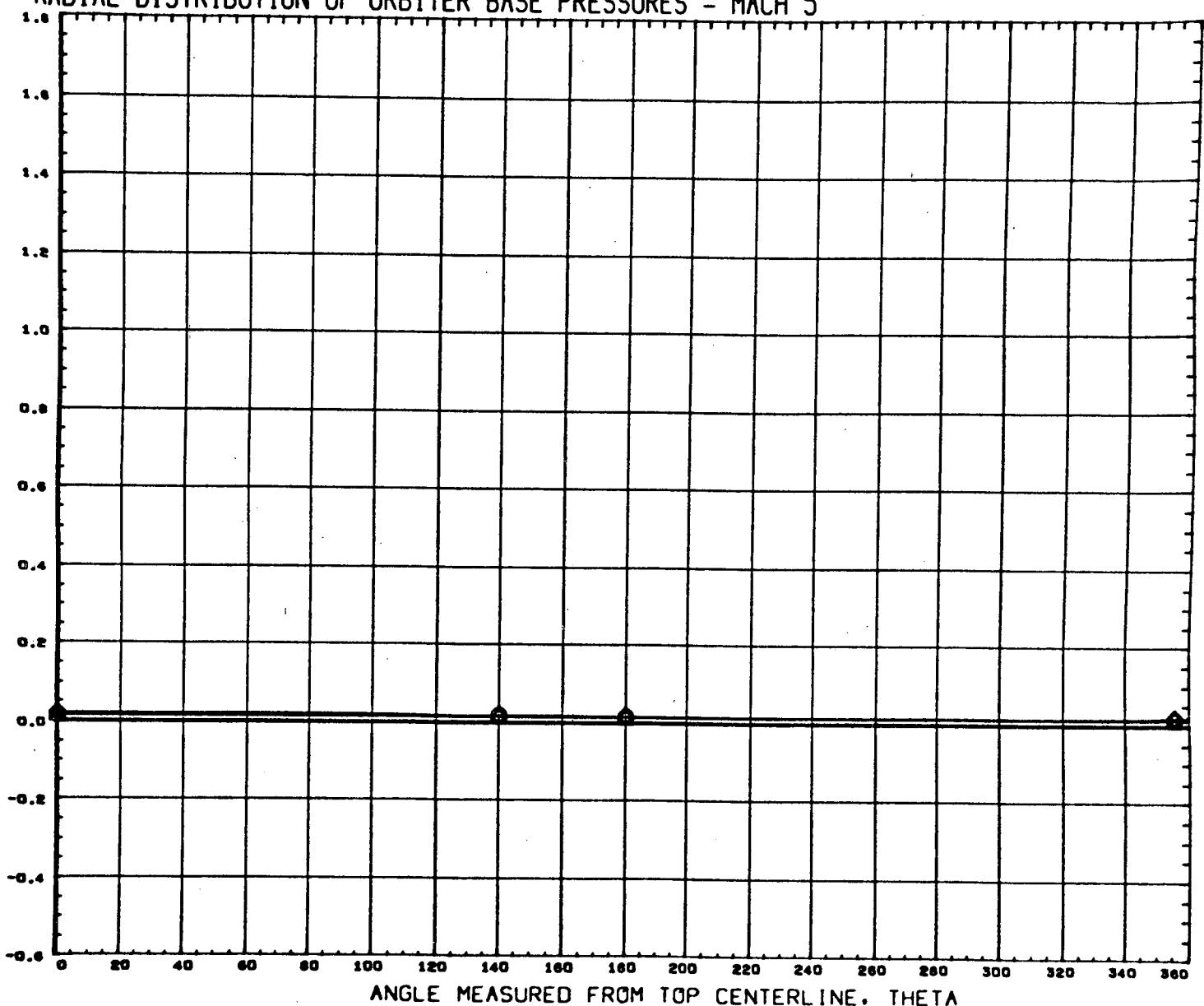
AEDC VA1163 MDAC ORBITER (BASE)

• IT8542 •

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RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL DELTAX X/L DELTAZ
 ◻ - 0.144 1.000 0.227
 △ 0.103
 ◇ 0.226

PARAMETRIC VALUES
 ALPHAB - 4.896 MACH 4.970
 ALPHAI 5.000 ORBPOW 100.000
 BSTPOW 50.000

REFERENCE FILE

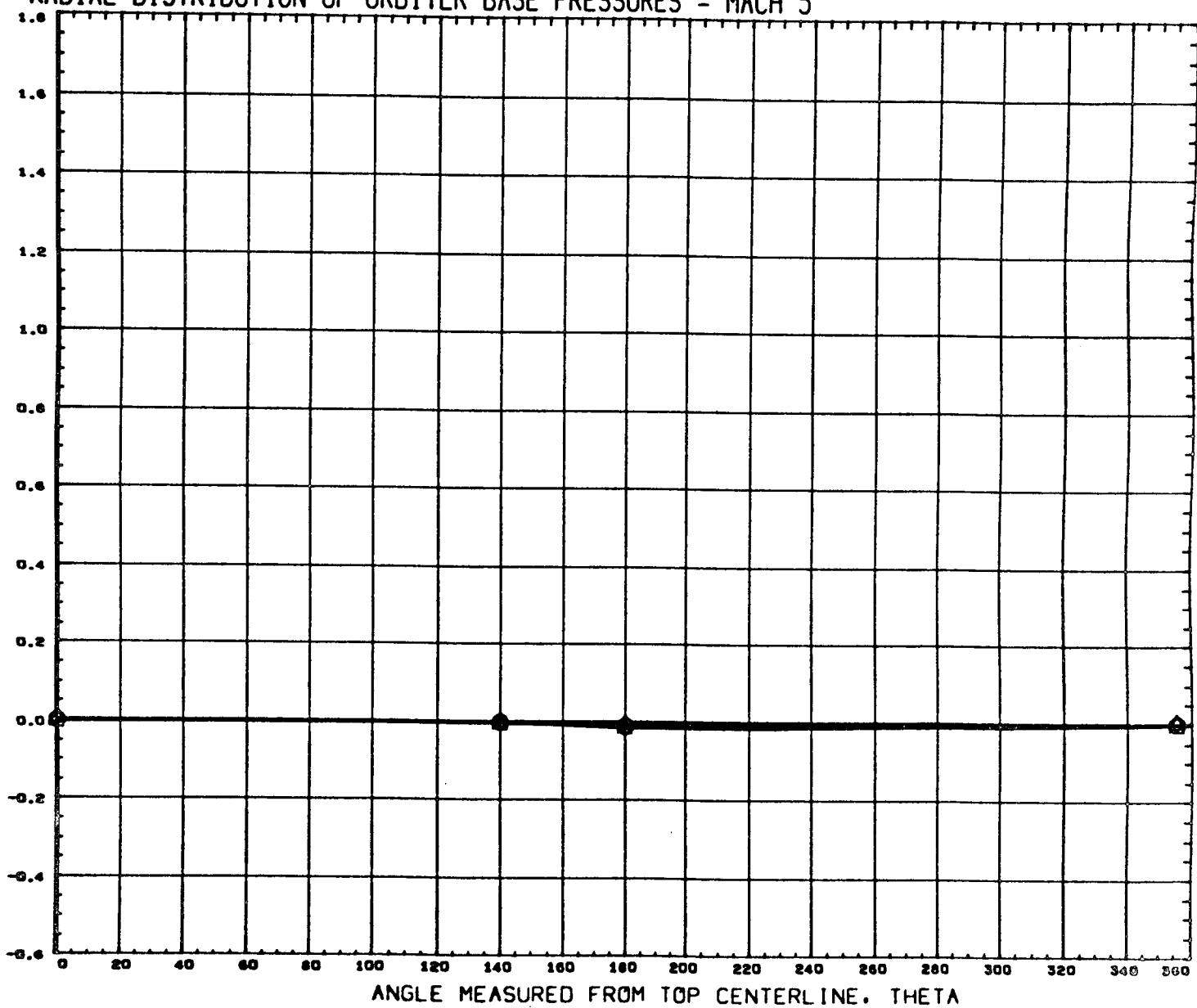
AEDC VA1163 MDAC ORBITER (BASE)

• IT8542 •

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RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL DELTAX X/L DELTAZ

○ -0.144 1.000 0.150

△ 0.103 1.000 0.150

◊ 0.226 1.000 0.150

PARAMETRIC VALUES

	ALPHAB	MACH	
ALPHAI	0.055	4.970	
BSTPOW	5.000	ORBPOW	100,000
	50,000		

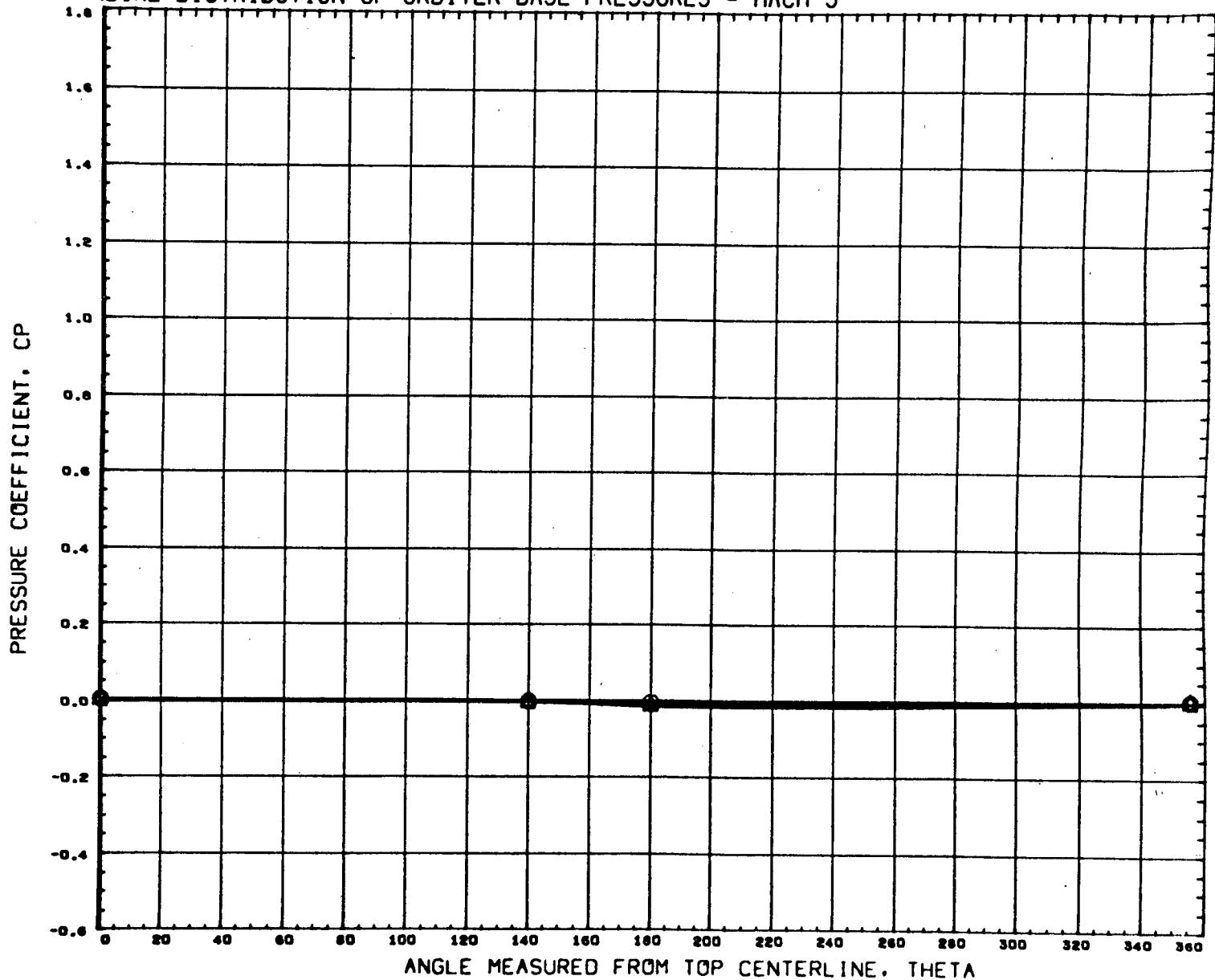
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

• IT8543 •

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RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL	DELTA X	X/L	DELTA Z
-	0.144	1.000	0.227
△	0.103		
◊	0.226		

PARAMETRIC VALUES			
ALPHAB	0.055	MACH	4.970
ALPHAI	5.000	ORBPOW	100.000
BSTPOW	50.000		

REFERENCE FILE

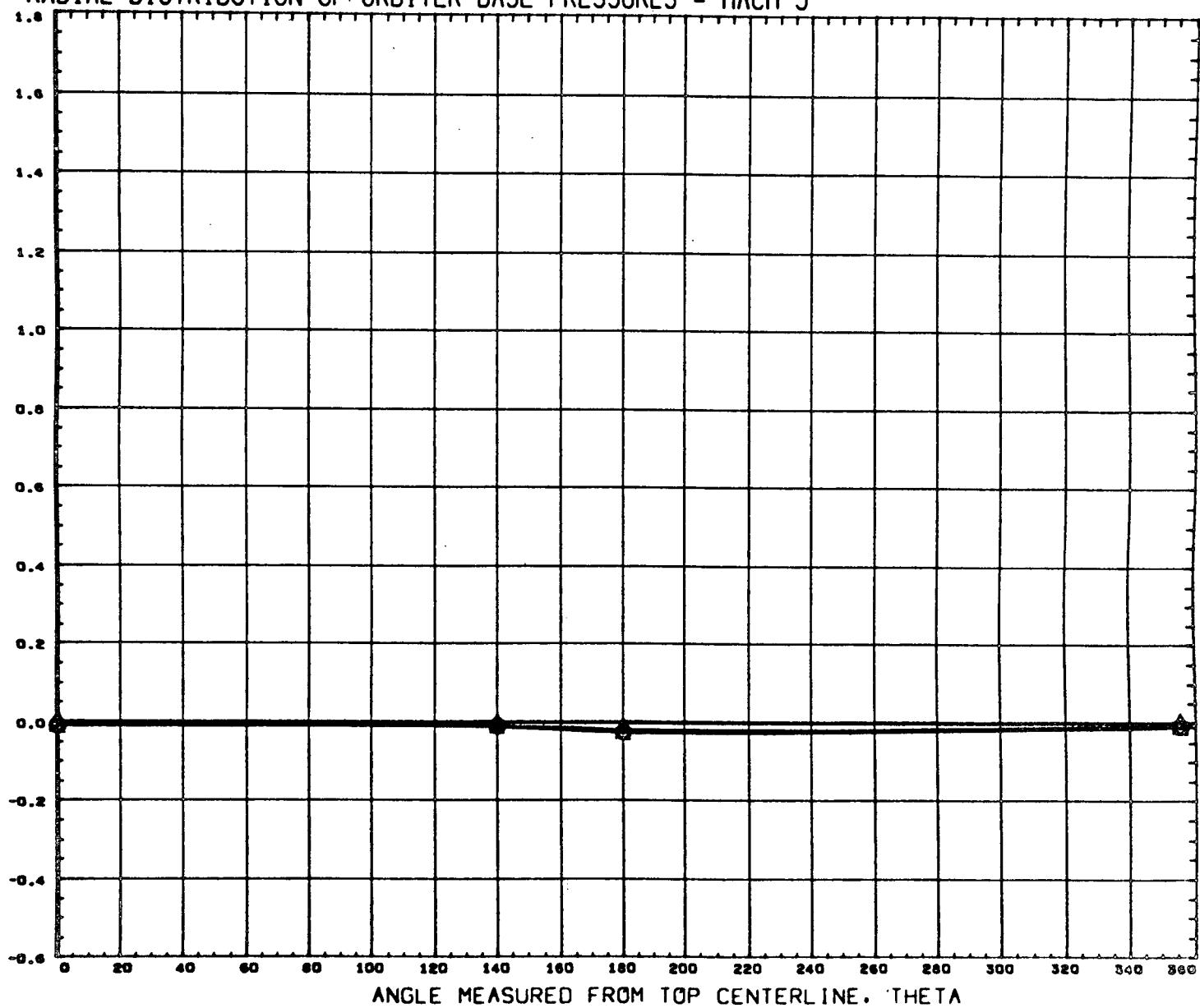
AEDC VA1163 MDAC ORBITER (BASE)

• IT8543 •

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RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL	DELTA X	X/L	DELTA Z
○	-0.144	1.000	0.150
△	0.103		
◊	0.226		

PARAMETRIC VALUES			
ALPHAB	5.031	MACH	6.970
ALPHAI	5.000	ORBPOW	100.000
BSTPOW	50.000		

REFERENCE FILE

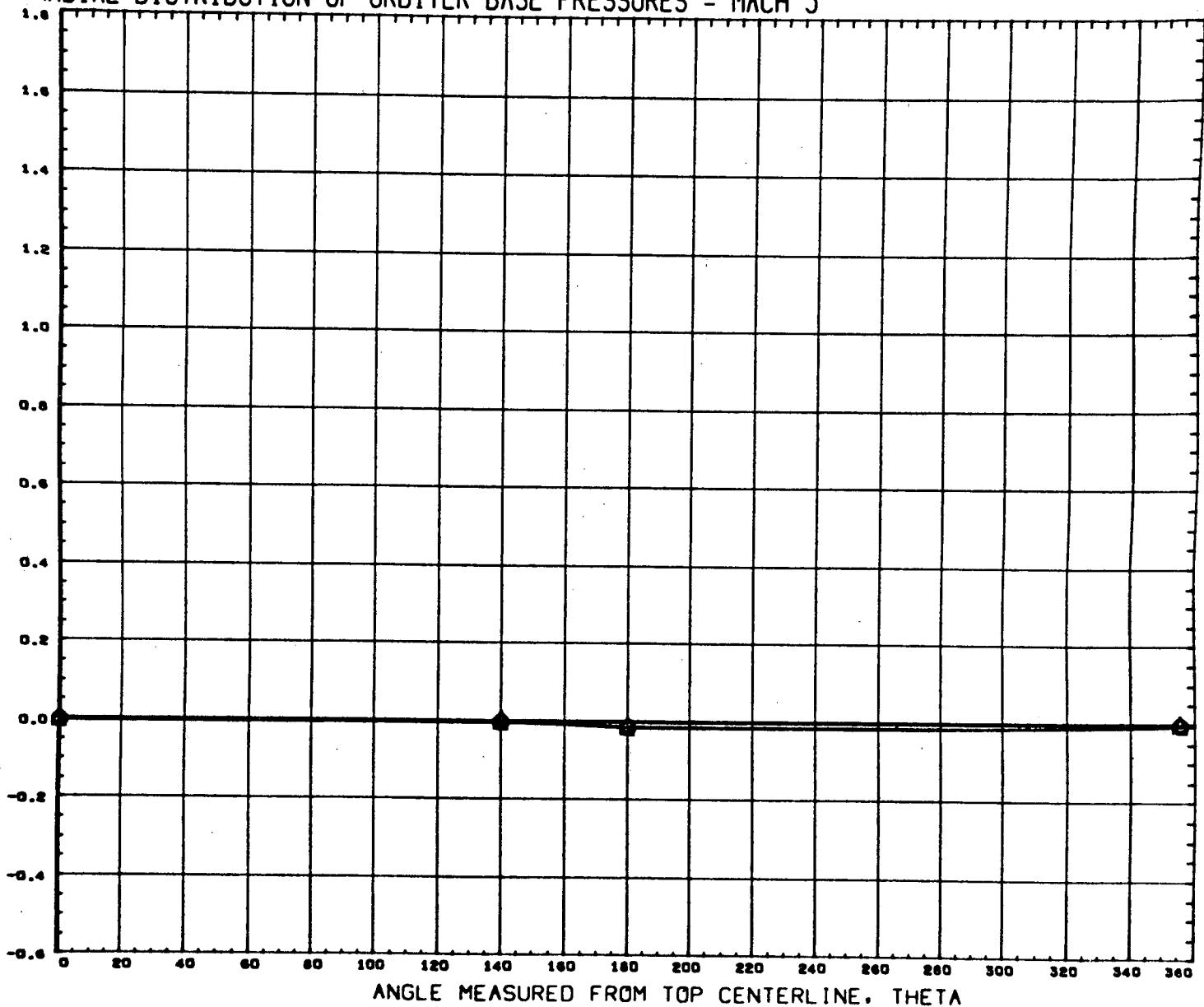
AEDC VA1163 MDAC ORBITER (BASE)

• IT8544 •

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RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL DELTAX X/L DELTAZ

○ - 0.144 1.000 0.227

△ 0.103

◊ 0.226

PARAMETRIC VALUES

	ALPHAB	MACH	
ALPHAB	5.031	MACH	4.970
ALPHAI	5.000	ORBPOW	100.000
BSTPOW	50.000		

REFERENCE FILE

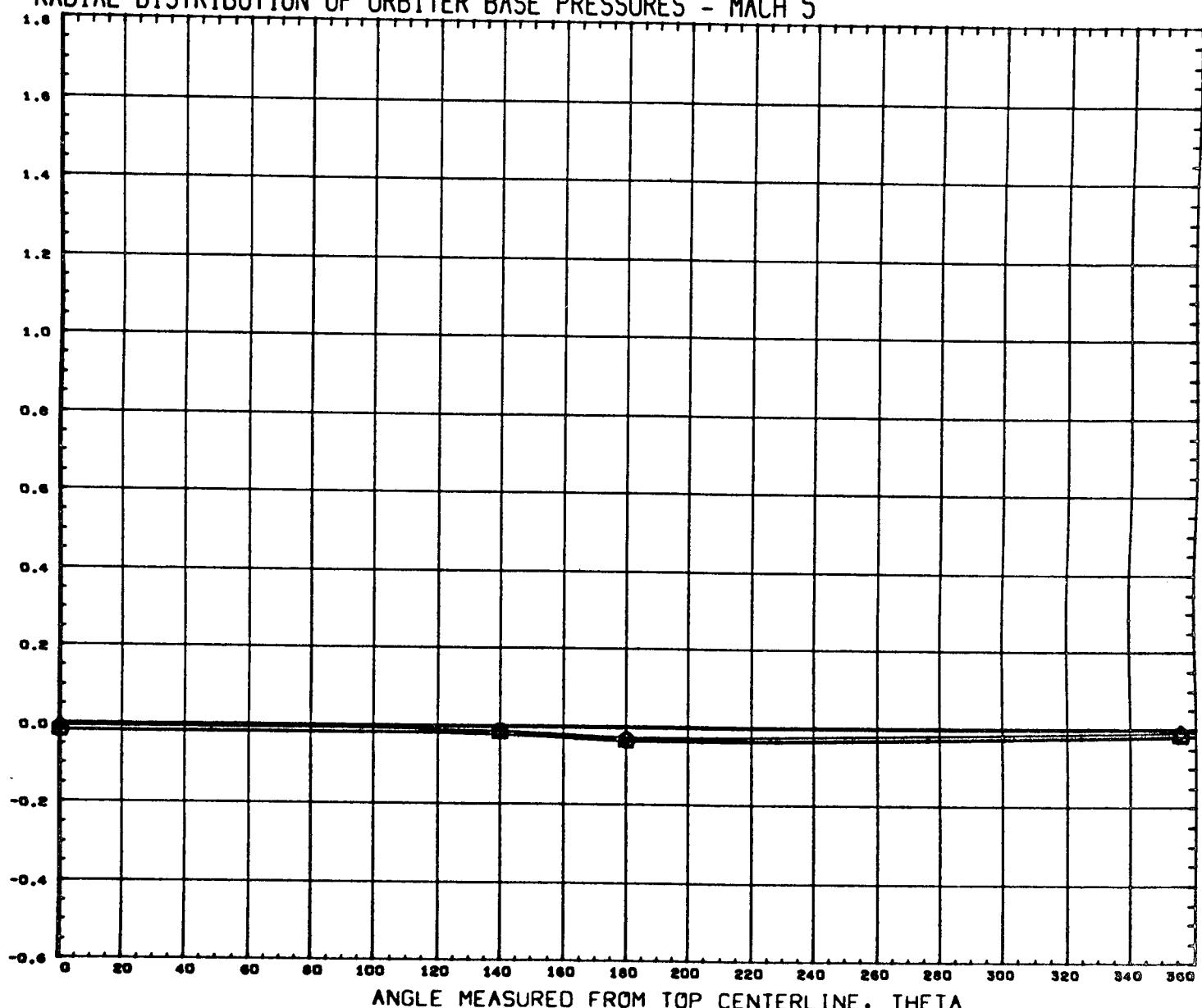
AEDC VA1163 MDAC ORBITER (BASE)

• IT8544 •

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RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



SYMBOL	DELTA X	X/L	DELTA Z
○	- 0.144	1.000	0.150
△	0.103		
◊	0.226		

PARAMETRIC VALUES		
ALPHAB	10.050	MACH 4.970
ALPHAI	5.000	ORBPOW 100.000
BSTPOW	50.000	

REFERENCE FILE

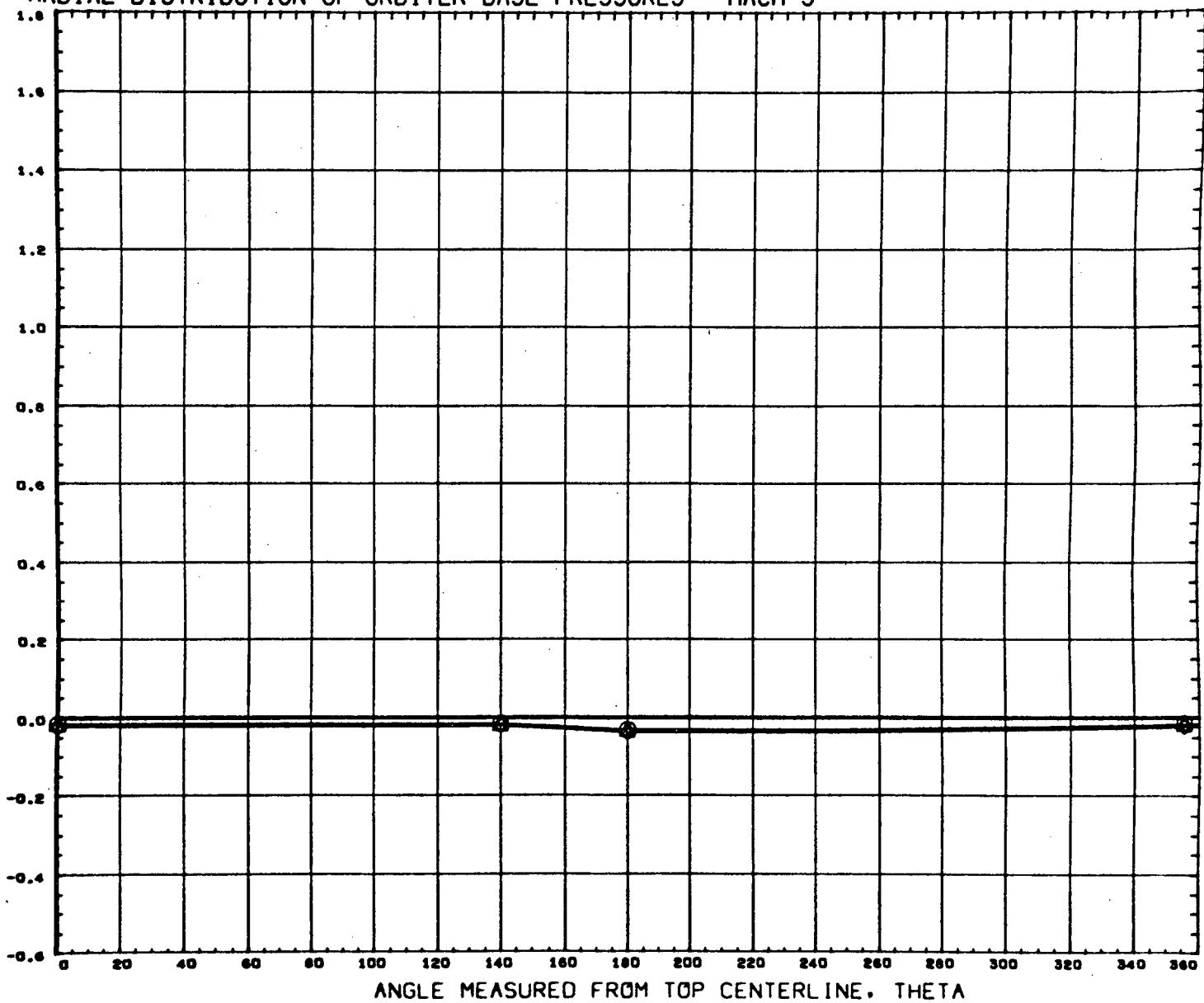
AEDC VA1163 MDAC ORBITER (BASE)

•IT8545•

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RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



SYMBOL DELTAX X/L DELTAZ

Δ	-	0.144	1.000	0.150
Δ	-	0.102		
\diamond	-	0.226		

PARAMETRIC VALUES

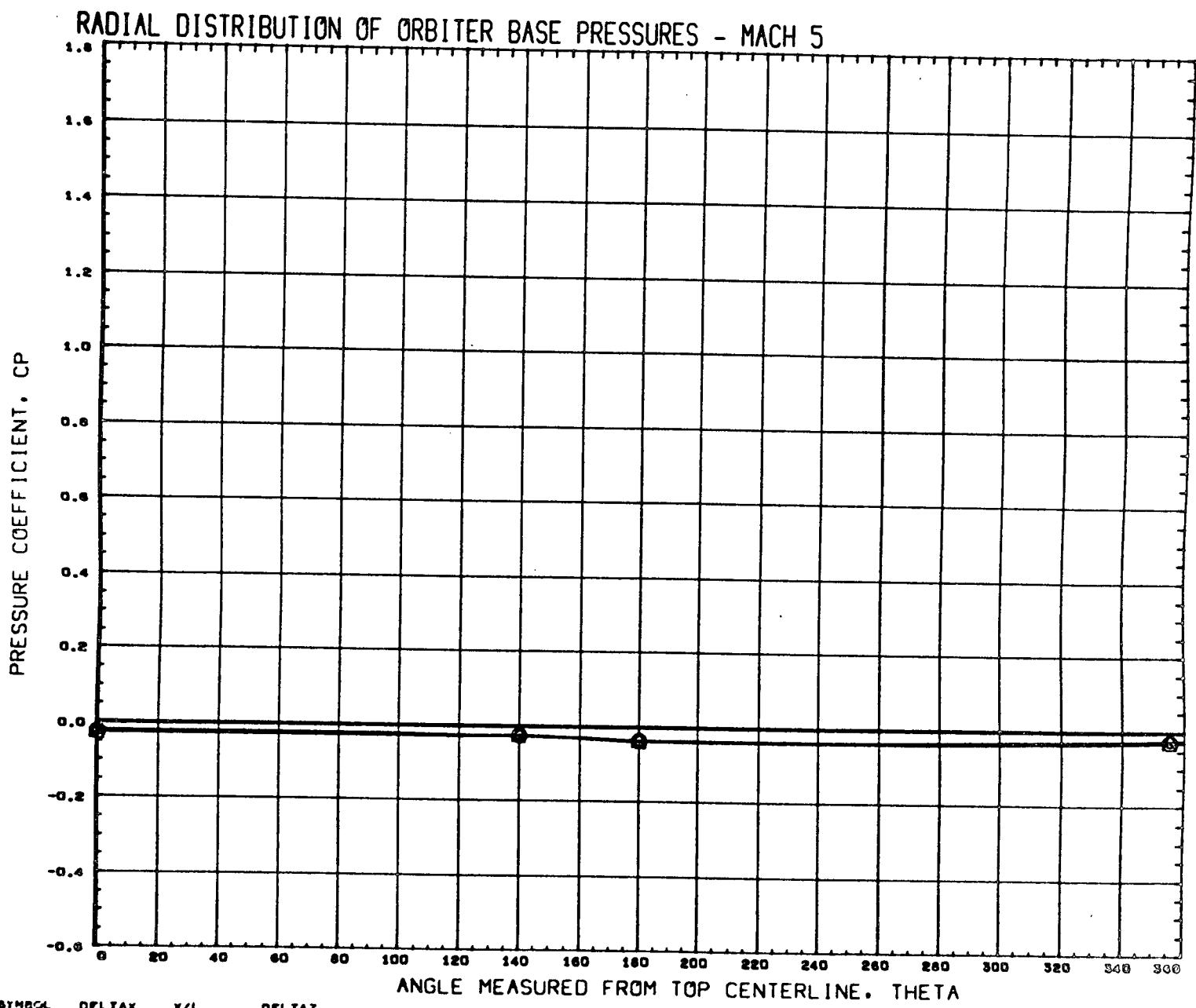
ALPHAB	-	4.891	MACH	4.970
ALPHAI	-	9.000	ORBPOW	0.000
BSTPOW	-	0.000		

REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

• IT8552 •

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SYMBOL	DELTA X	X/L	DELTA Z
\circlearrowleft	-0.144	1.000	0.226
Δ	0.102		
\diamond	0.226		

PARAMETRIC VALUES		
ALPHAB	- 4.691	MACH 6.970
ALPHAI	5.000	ORBPOW 0.000
BSTPOW	0.000	

REFERENCE FILE

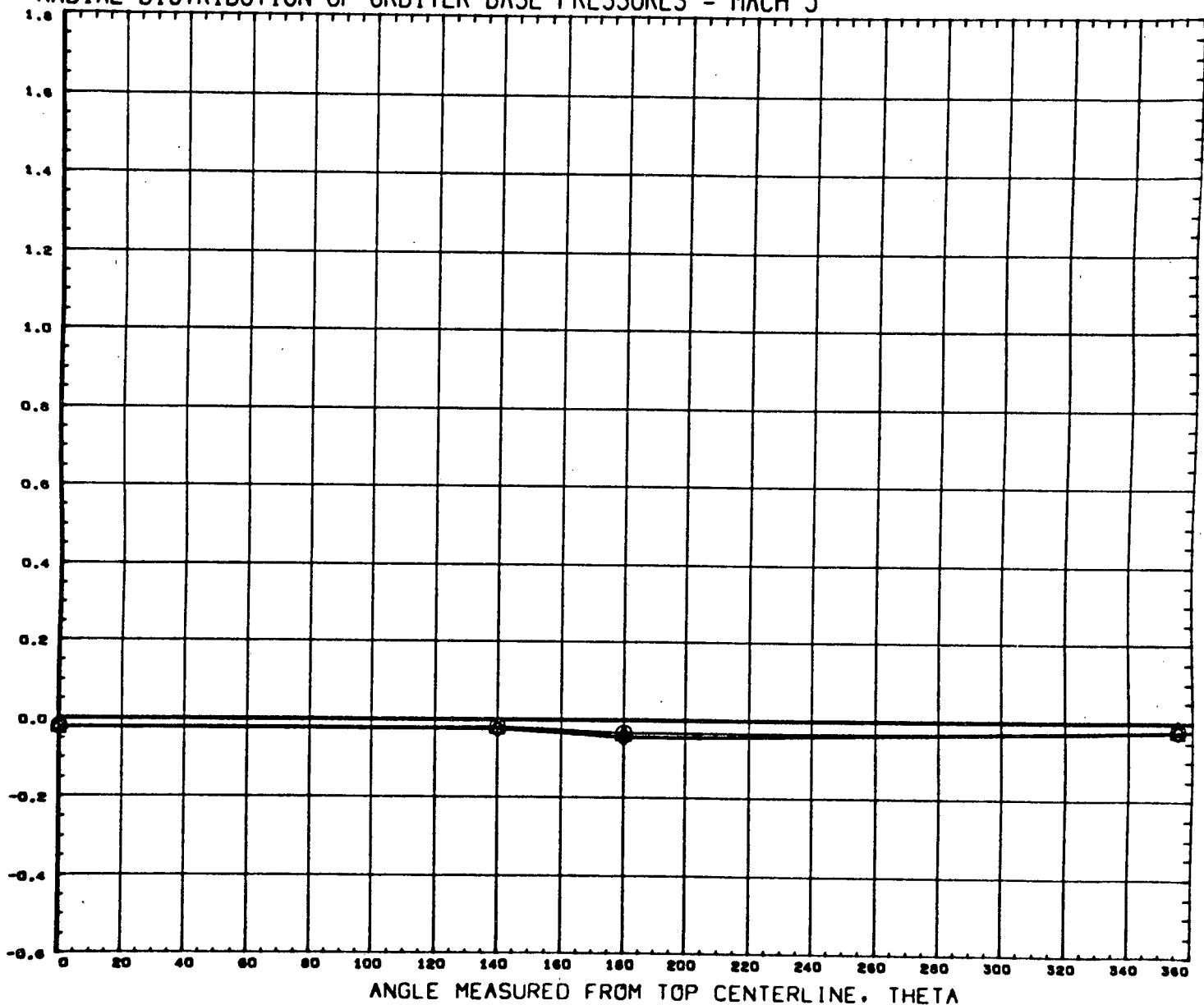
AEDC VA1163 MDAC ORBITER (BASE)

• IT8552 •

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RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



ANGLE MEASURED FROM TOP CENTERLINE. THETA

SYMBOL DELTAX X/L DELTAZ

○ - 0.144 1.000 0.150

△ 0.102

◊ 0.226

PARAMETRIC VALUES

	ALPHAB	MACH	
ALPHAI	0.060	4.970	
BSTPOW	5.000	ORBPOW	0.000
	0.000		

REFERENCE FILE

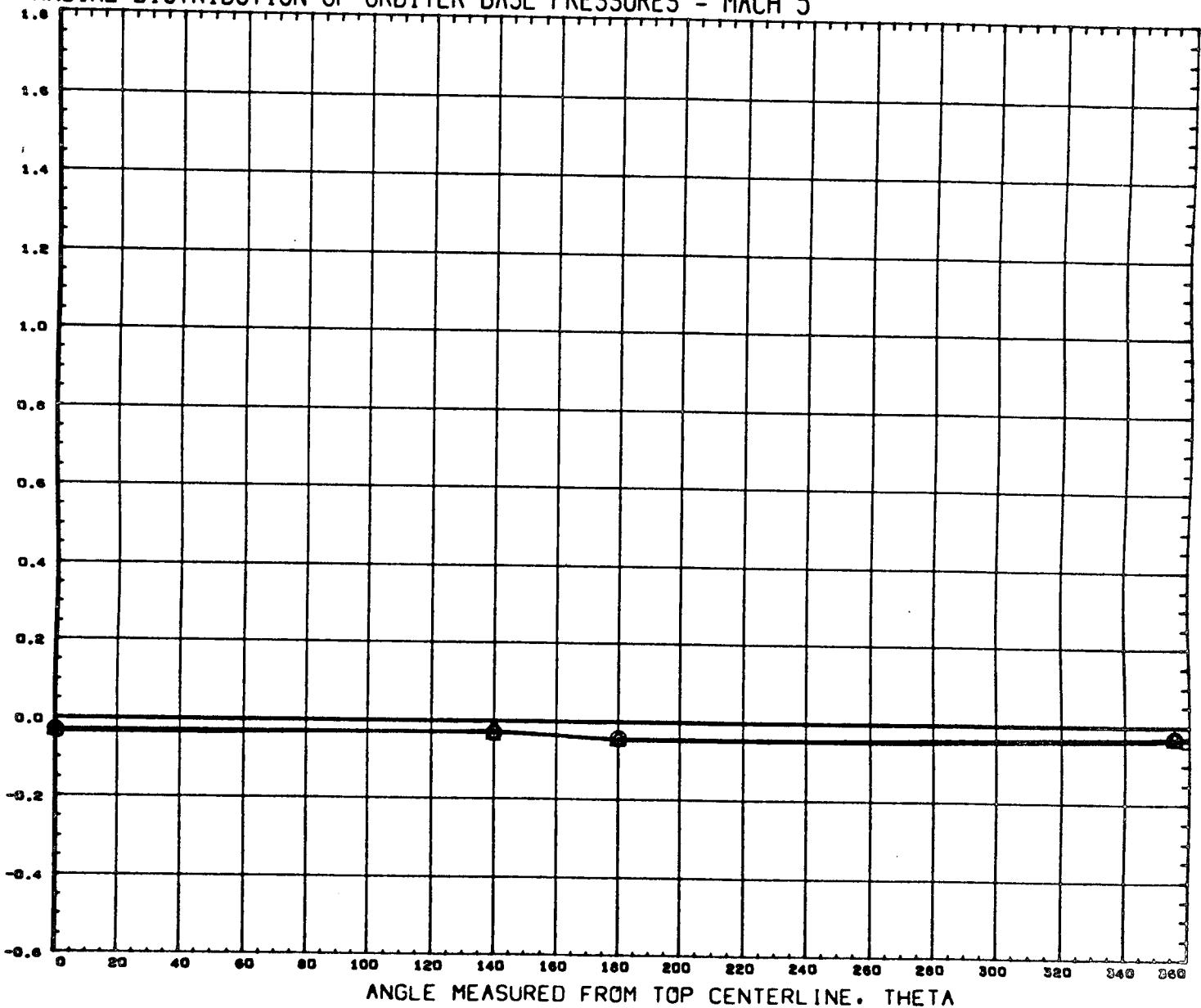
AEDC VA1163 MDAC ORBITER (BASE)

• IT8553 •

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PRESSURE COEFFICIENT, CP

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL	DELTA X	X/L	DELTA Z
(○)	- 0.144	1.000	0.226
(△)	0.102		
(◊)	0.226		

PARAMETRIC VALUES		
ALPHAB	0.060	MACH
ALPHAI	9.000	ORBPOW
BSTPOW	0.000	

REFERENCE FILE

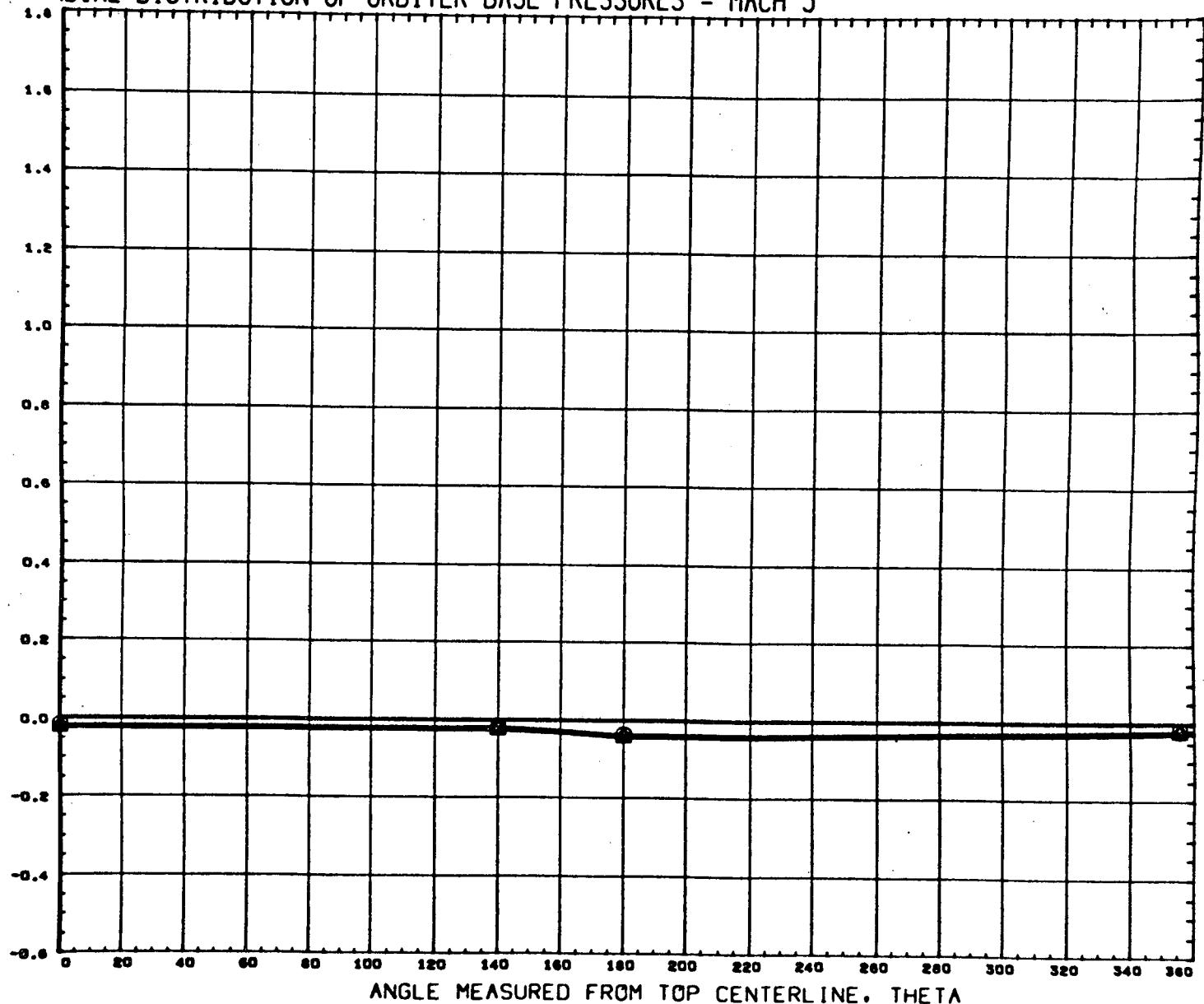
AEDC VA1163 MDAC ORBITER (BASE)

•IT8553•

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RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL	DELTA X	X/L	DELTA Z
○	0.144	1.000	0.150
△	0.102		
◊	0.226		

PARAMETRIC VALUES			
ALPHAB	5.033	MACH	4.970
ALPHAI	5.000	ORBPOW	0.000
BSTPOW	0.000		

REFERENCE FILE

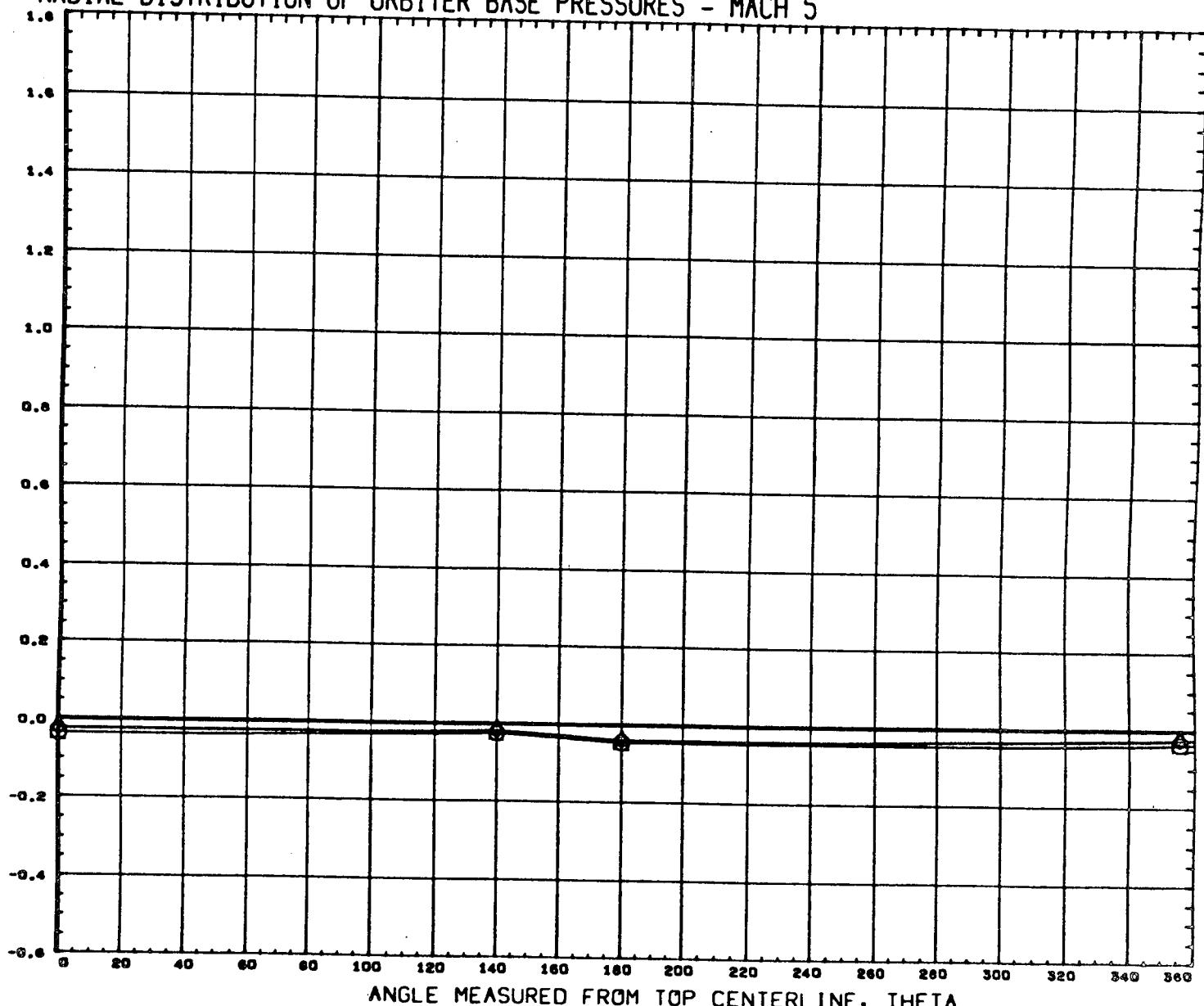
AEDC VA1163 MDAC ORBITER (BASE)

• IT8554 •

PAGE 1065

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL DELTAX X/L DELTAZ

 - 0.144 1.000 0.227

 ◇ 0.102 0.000 0.226

PARAMETRIC VALUES			
ALPHAB	5.033	MACH	4.970
ALPHAI	5.000	ORBPOW	0.000
BSTPOW	0.000		

REFERENCE FILE

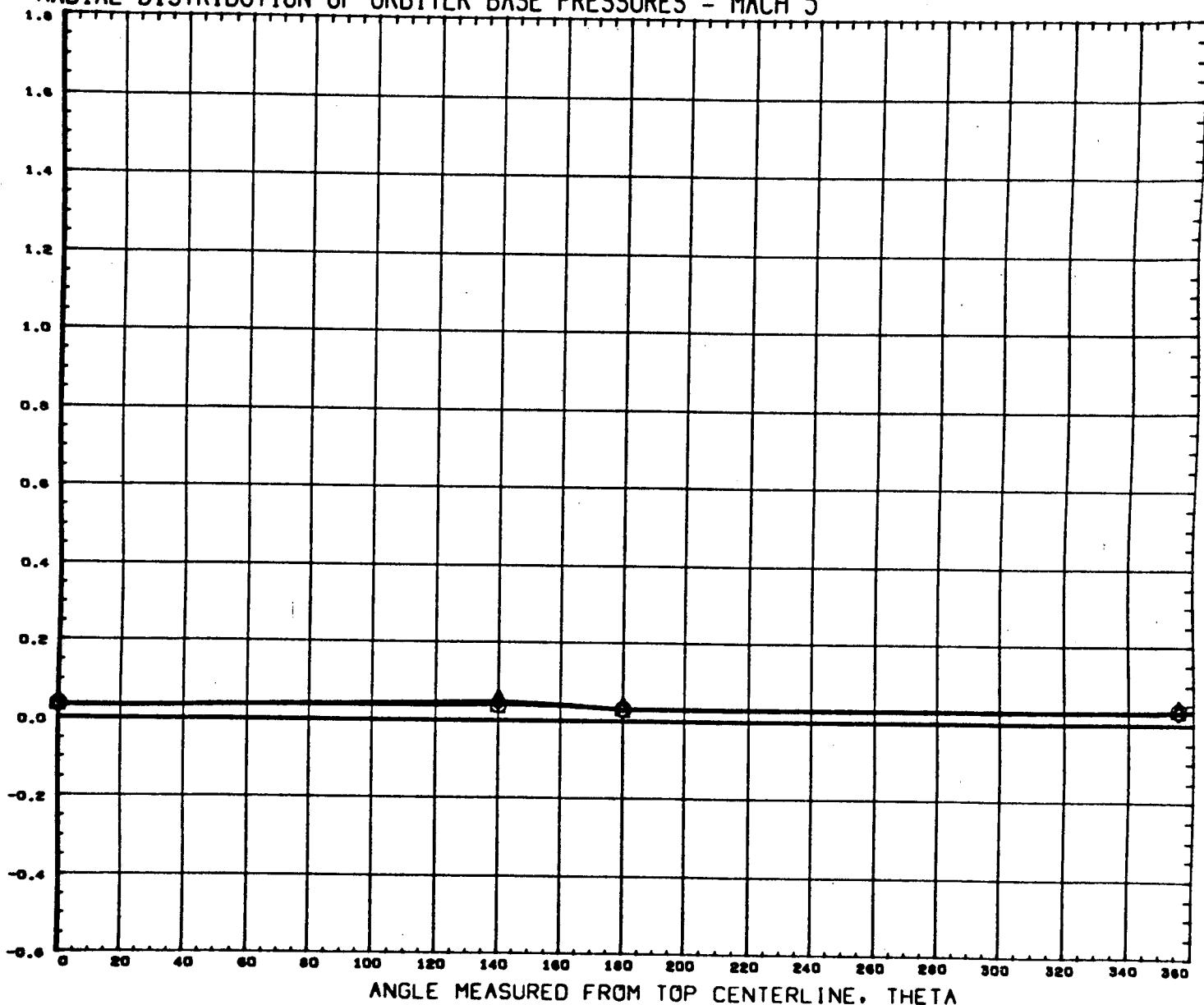
AEDC VA1163 MDAC ORBITER (BASE)

• IT8554 •

PAGE 1066

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL DELTAX X/L DELTAZ
○ - 0.143 1.000 0.120
△ 0.103
◊ 0.226

PARAMETRIC VALUES
 ALPHAB = 4.935 MACH = 4.970
 ALPHAI = 0.000 ORBPOW = 100.000
 BBTPOW = 50.000

REFERENCE FILE

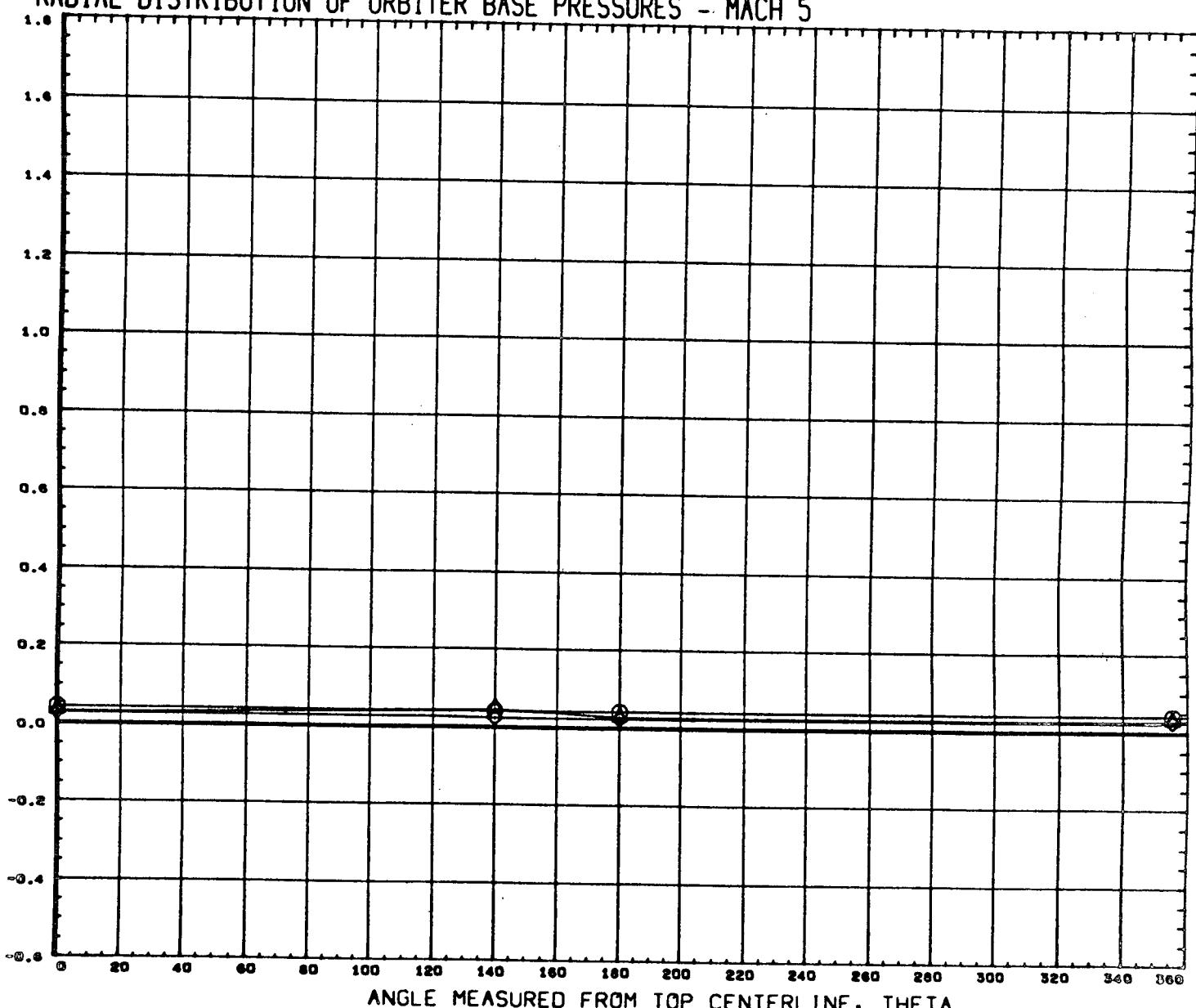
AEDC VA1163 MDAC ORBITER (BASE)

• IT8562 •

PAGE 1067

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



ANGLE MEASURED FROM TOP CENTERLINE, THETA

SYMBOL DELTAX X/L DELTAZ
△ - 0.144 1.000 0.151
◊ 0.103 0.226

PARAMETRIC VALUES
 ALPHAB - 4.935 MACH 4.970
 ALPHAI 0.000 ORBPOW 100.000
 BSTPOW 50.000

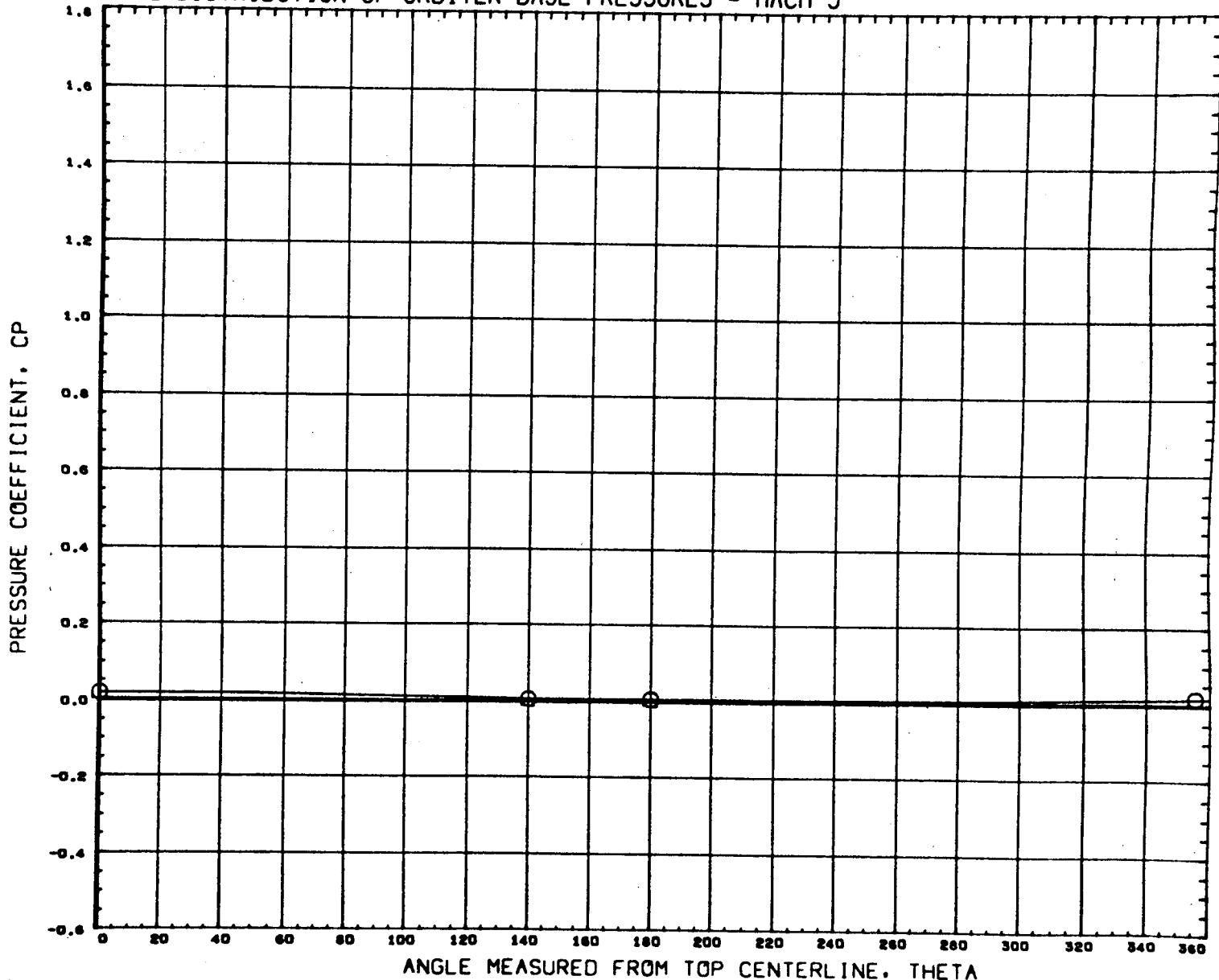
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

• IT8562 •

PAGE 1068

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL DELTAX X/L DELTAZ
○ 0.920 1.000 0.906

PARAMETRIC VALUES			
ALPHAB	- 4.933	MACH	4.970
ALPHAI	0.000	ORBPOW	100.000
BSTPOW	50.000		

REFERENCE FILE

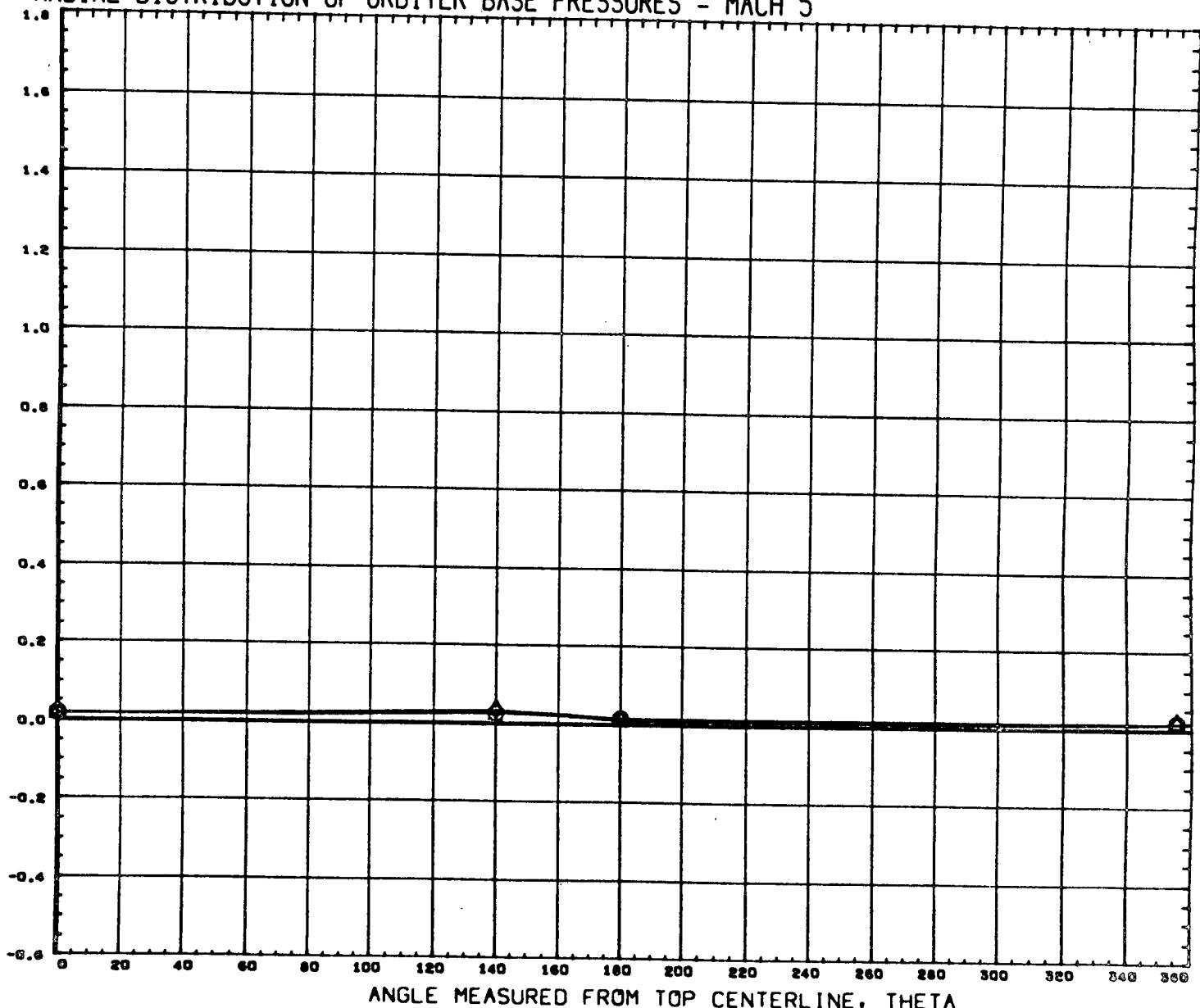
AEDC VA1163 MDAC ORBITER (BASE)

• IT8562 •

PAGE 1069

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL	DELTA X	X/L	DELTA Z
C	-0.143	1.000	0.120
△	0.103		
◊	0.226		

PARAMETRIC VALUES			
ALPHAB	0.002	MACH	4.970
ALPHAI	0.000	ORBPOW	100.000
BSTPOW	50.000		

REFERENCE FILE

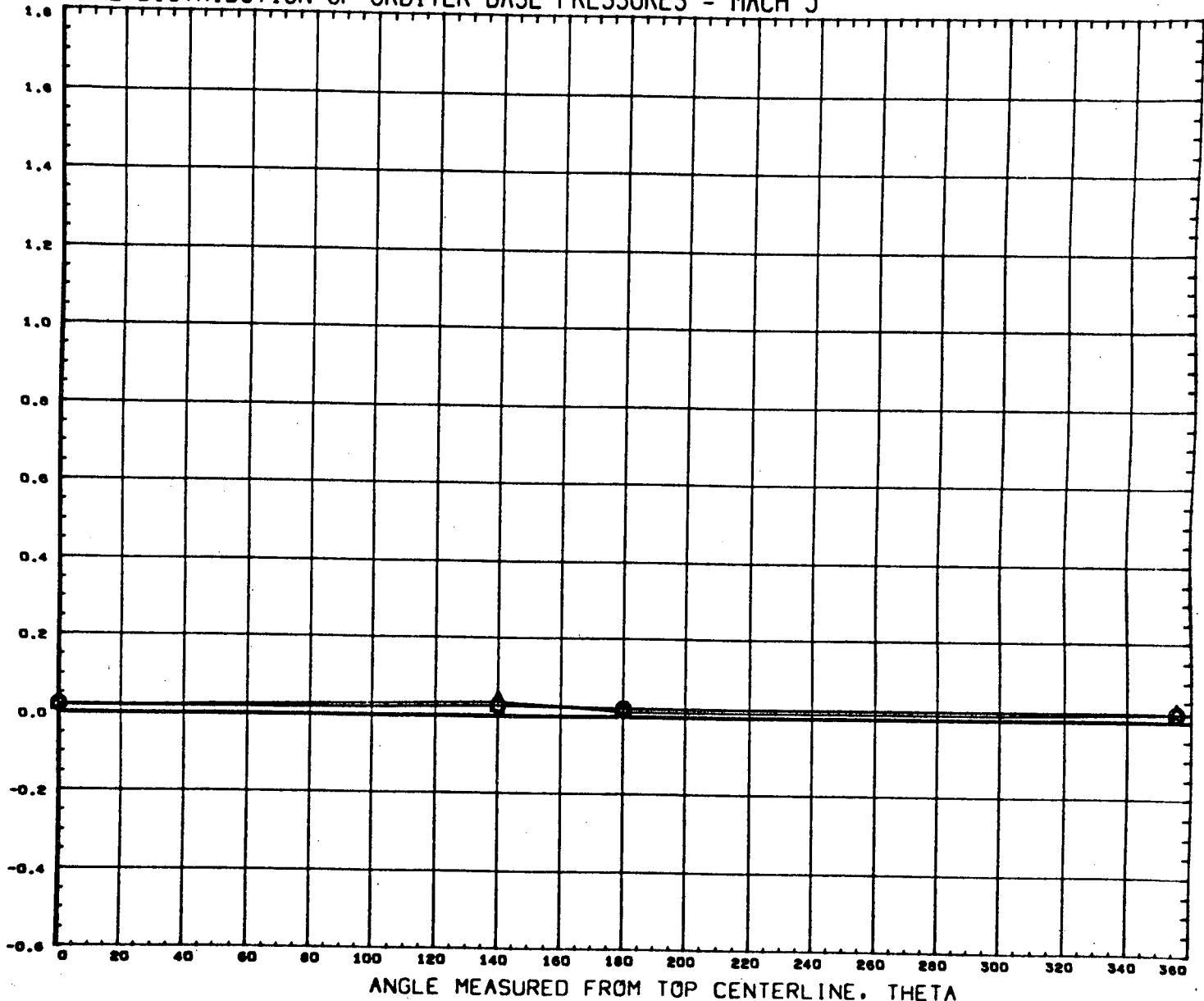
AEDC VA1163 MDAC ORBITER (BASE)

• IT8563 •

PAGE 1070

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL DELTAX X/L DELTAZ
 ◻ - 0.144 1.000 0.191
 △ 0.103
 ◇ 0.226

PARAMETRIC VALUES
 ALPHAB 0.002 MACH 4.970
 ALPHAT 0.000 ORBPOW 100.000
 BBTPOW 50.000

REFERENCE FILE

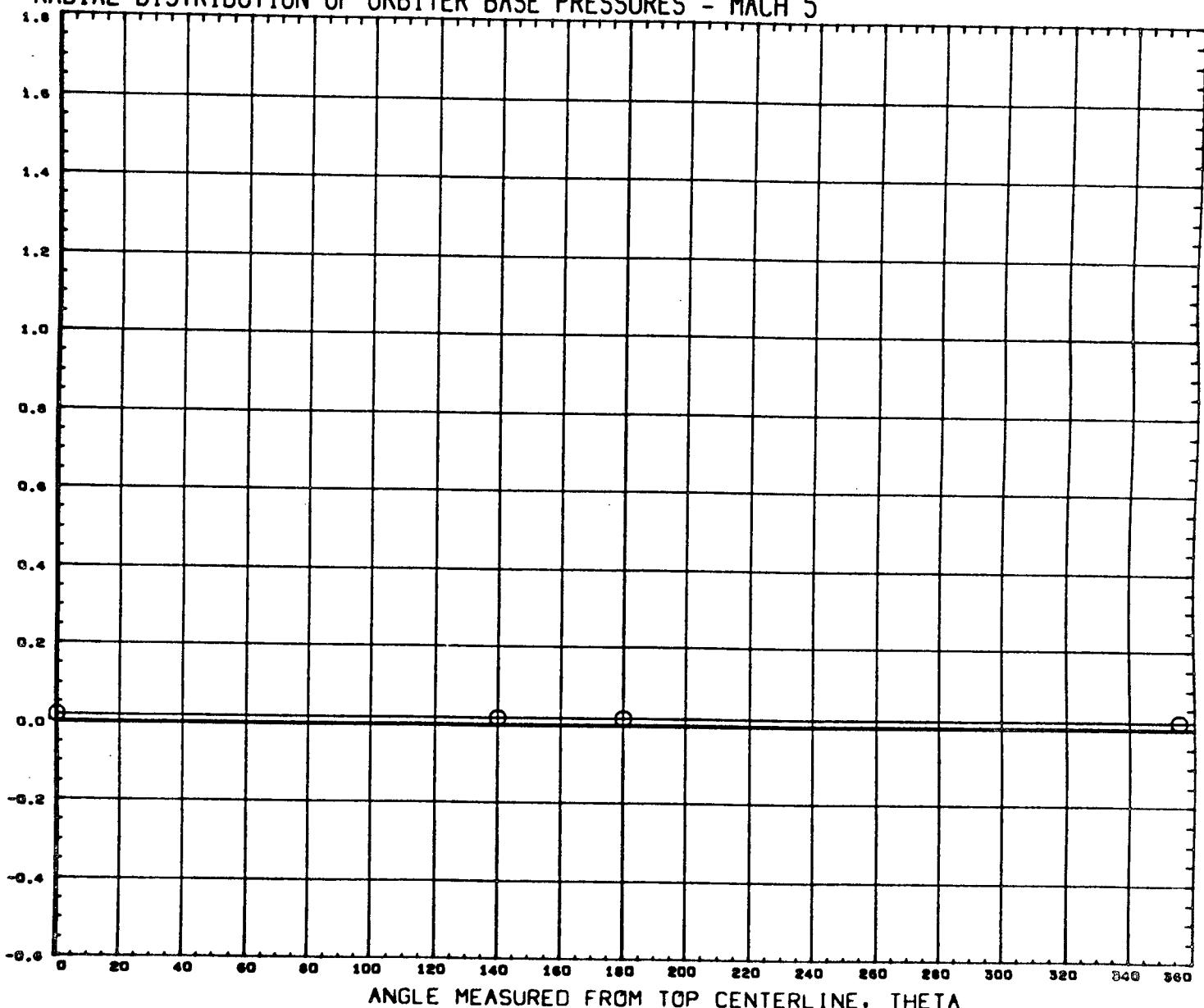
AEDC VA1163 MDAC ORBITER (BASE)

•IT8563•

PAGE 1071

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



SYMBOL DELTAX X/L DELTAZ
C 0.520 1.000 0.909

	ALPHAB	MACH
ALPHAT	0.002	4.970
BSTPOW	0.000	200.000
	50.000	

REFERENCE FILE

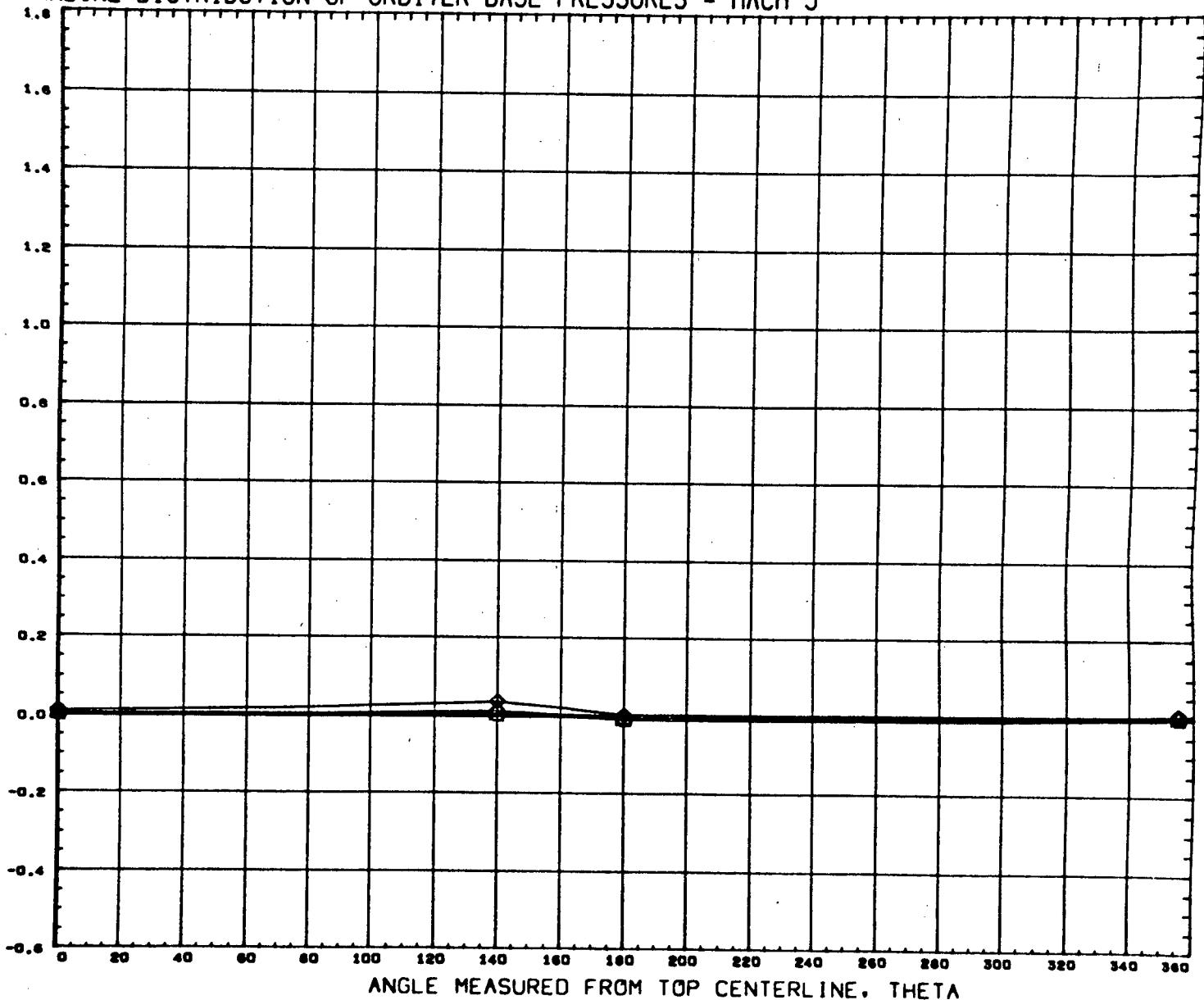
AEDC VA1163 MDAC ORBITER (BASE)

•IT8563•

PAGE 1072

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL DELTAX X/L DELTAZ

 - 0.143 1.000 0.120

 0.103

 0.226

PARAMETRIC VALUES

ALPHAB	3.570	MACH	4.970
ALPHAI	0.000	ORBPOW	100.000
BSTPOW	50.000		

REFERENCE FILE

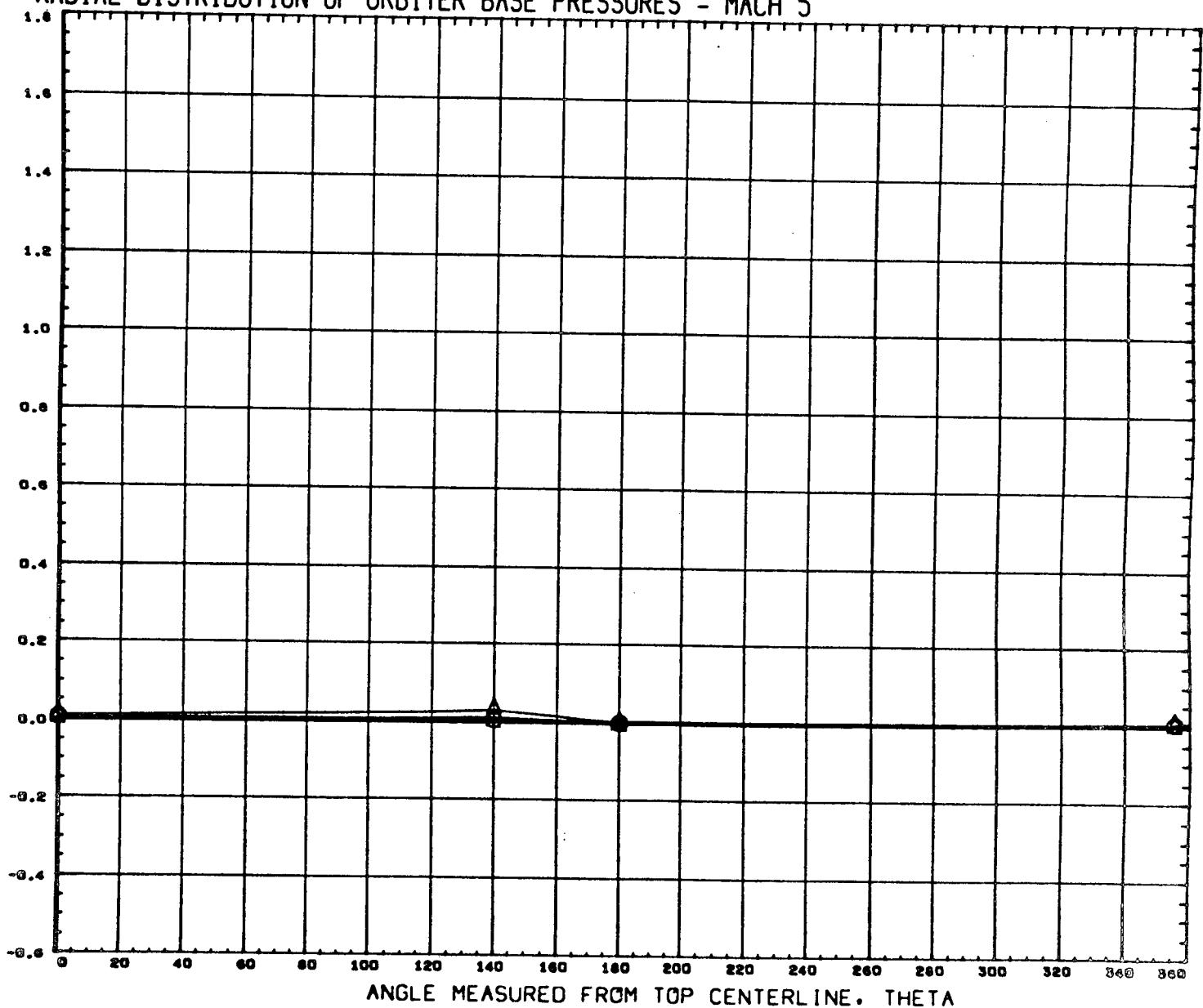
AEDC VA1163 MDAC ORBITER (BASE)

• IT8564 •

PAGE 1073

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL DELTAX X/L DELTAZ

- 0.144 1.000 0.191
- △ 0.103
- ◊ 0.226

PARAMETRIC VALUES

	ALPHAB	MACH
ALPHAI	3.970	4.970
BSTPOW	0.000	ORBPOW 100,000
	50.000	

REFERENCE FILE

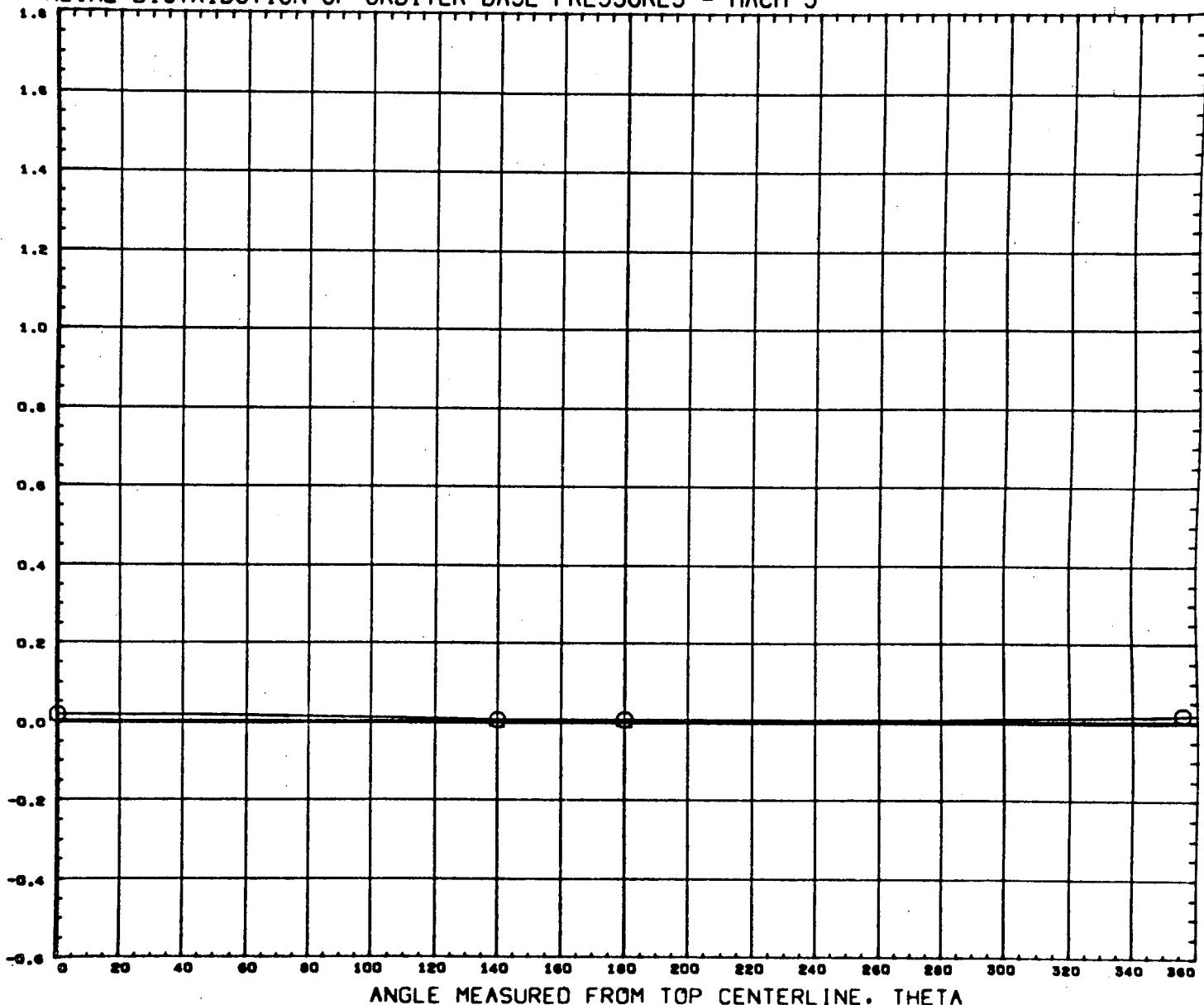
AEDC VA1163 MDAC ORBITER (BASE)

• IT8564 •

PAGE 1074

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL DELTAX X/L DELTAZ
C 0.920 1.000 0.906

PARAMETRIC VALUES			
ALPHAB	3.578	MACH	4.970
ALPHAI	0.000	ORBPOW	100.000
BSTPOW	50.000		

REFERENCE FILE

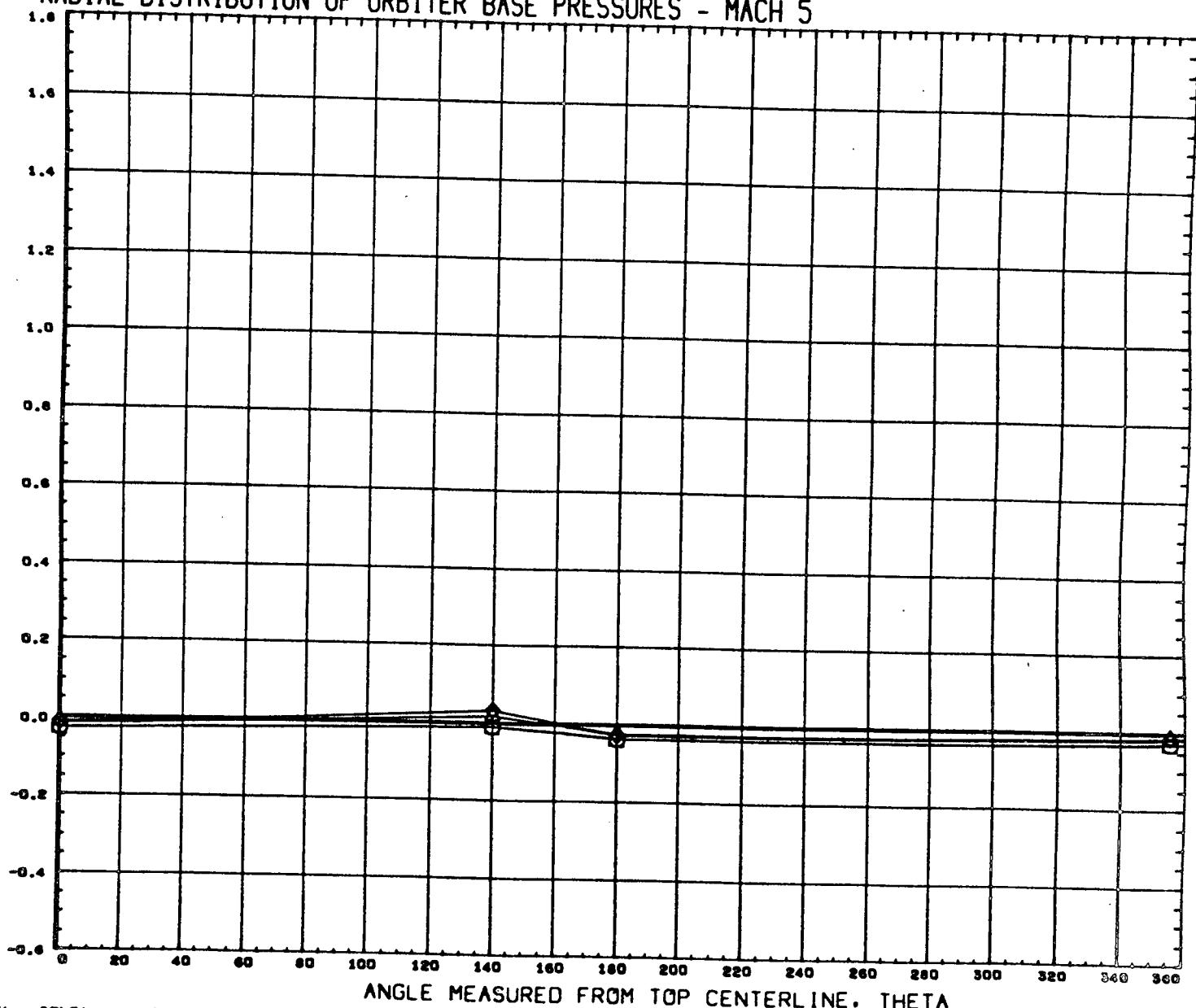
AEDC VA1163 MDAC ORBITER (BASE)

• IT8564 •

PAGE 1075

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



SYMBOL DELTAX X/L DELTAZ
△ 0.144 1.000 0.120
- 0.103 1.000 0.120
◊ 0.226 1.000 0.120

PARAMETRIC VALUES
 ALPHAB = 4.930 MACH = 4.970
 ALPHA1 = 0.000 ORBPOW = 0.000
 BSTPOW = 0.000

REFERENCE FILE

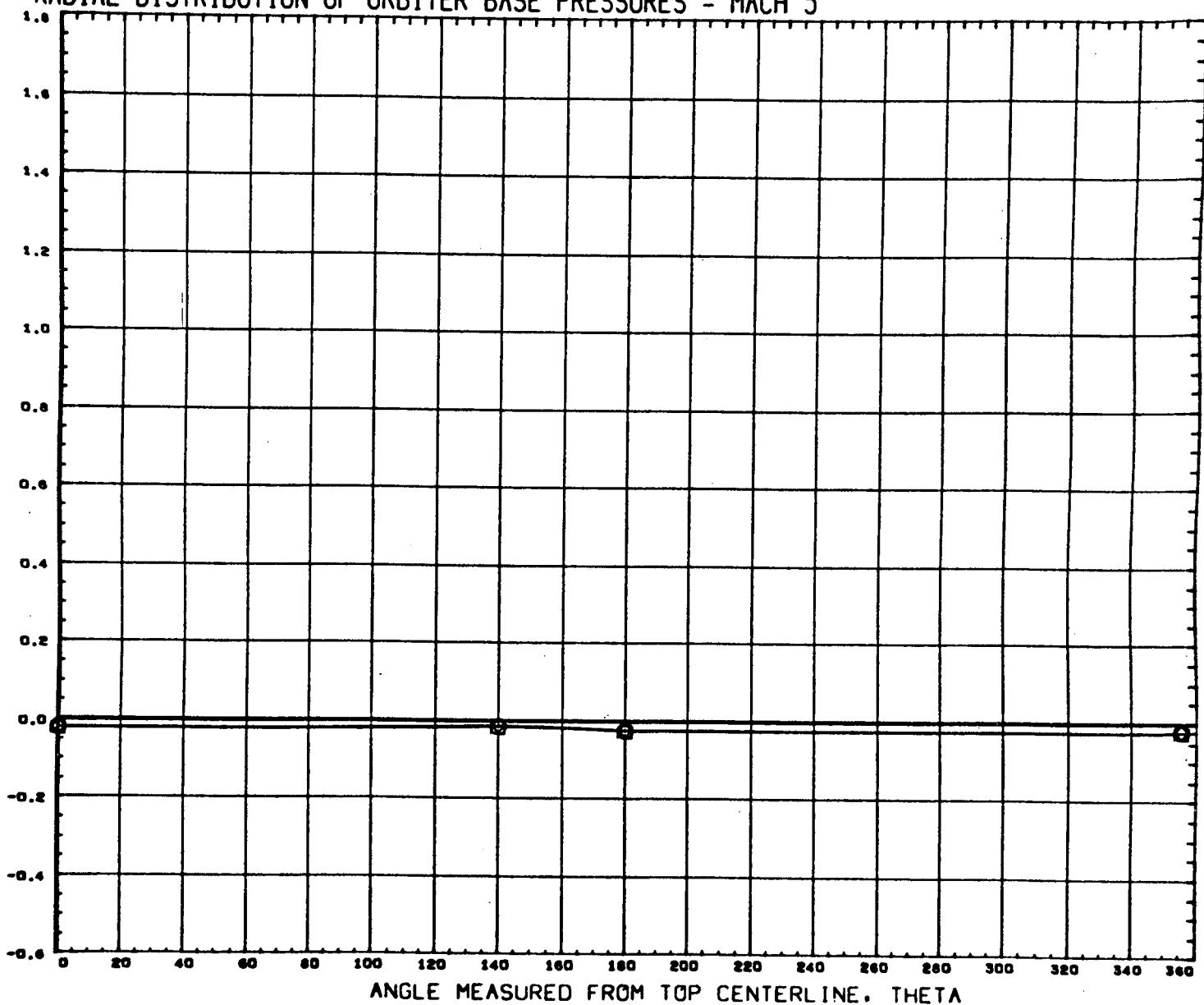
AEDC VA1163 MDAC ORBITER (BASE)

•IT8572•

PAGE 1076

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL DELTAX X/L DELTAZ

○	- 0.144	1.000	0.191
△	0.103		
◊	0.226		

PARAMETRIC VALUES

ALPHAB	- 4.930	MACH	4.970
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

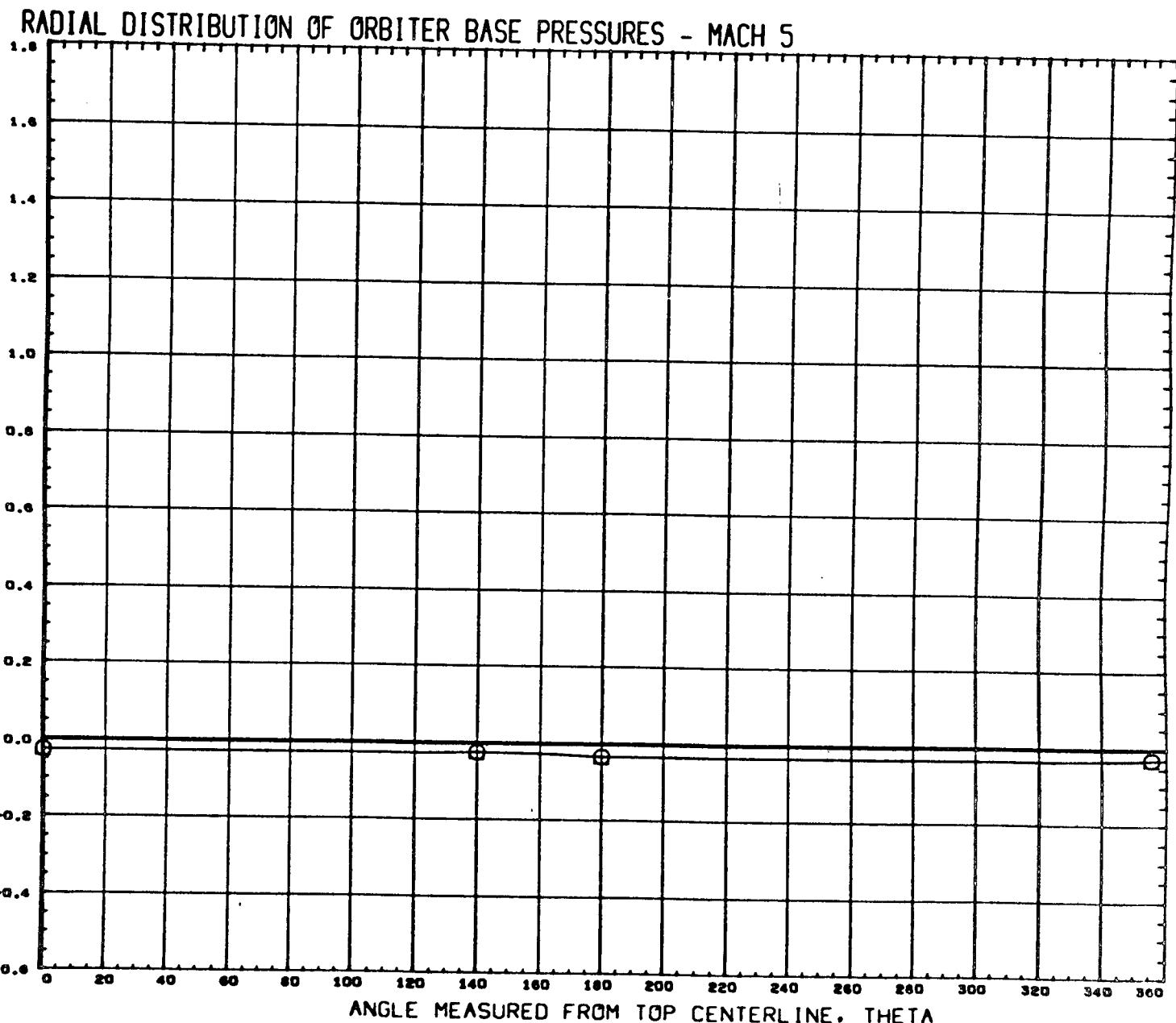
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

• IT8572 •

PAGE 1077

PRESSURE COEFFICIENT - CP



SYMBOL DELTAX X/L DELTAZ
□ 0.520 1.000 0.900

PARAMETRIC VALUES
ALPHAB = 4.930 MACH 4.970
ALPHAI 0.000 ORBPOW 0.000
BBTPOW 0.000

REFERENCE FILE

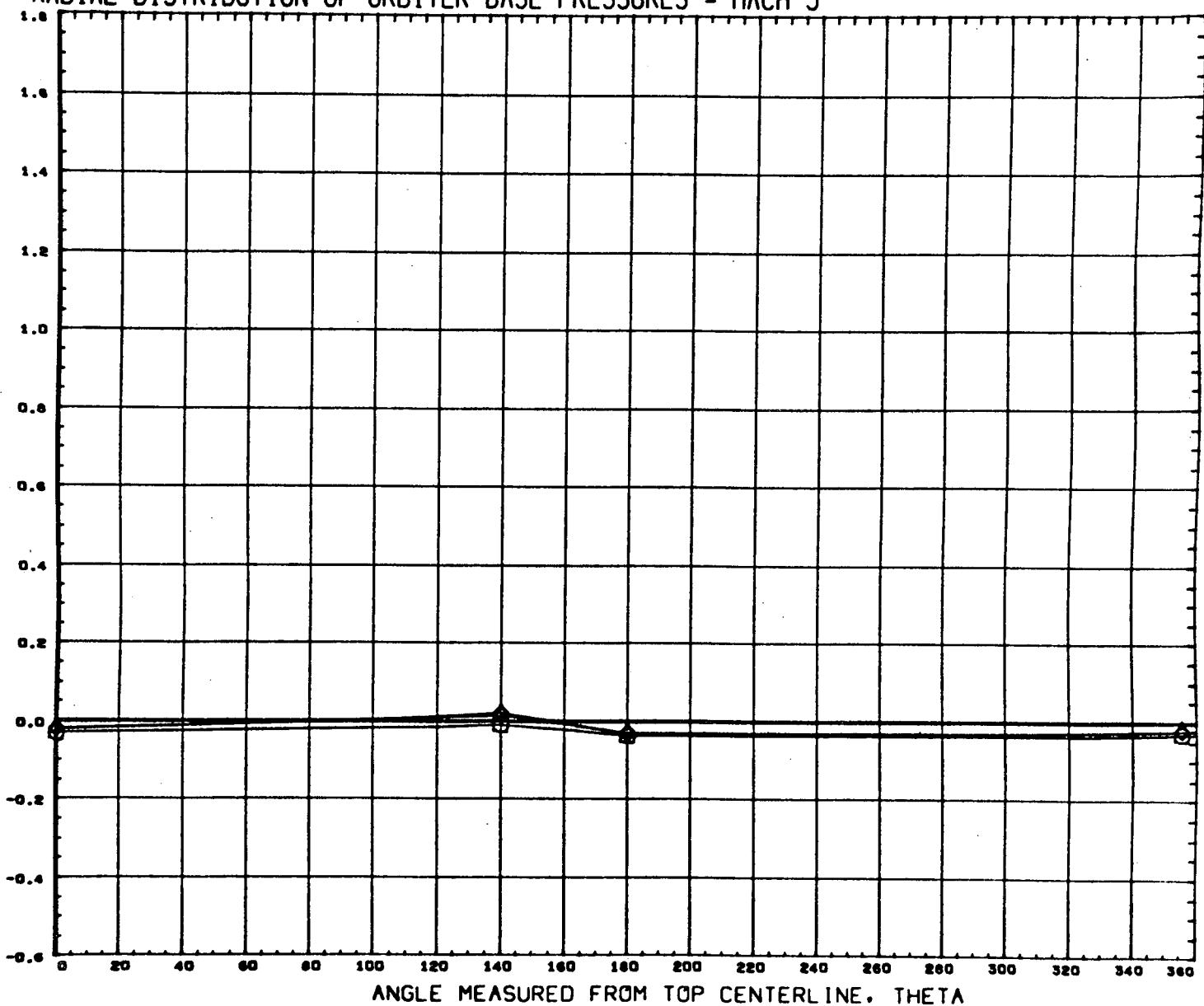
AEDC VA1163 MDAC ORBITER (BASE)

• IT8572 •

PAGE 1078

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



ANGLE MEASURED FROM TOP CENTERLINE, THETA

SYMBOL	DELTA X	X/L	DELTA Z
△	-0.144	1.000	0.120
×	0.103		
◊	0.226		

PARAMETRIC VALUES			
ALPHAB	0.001	MACH	4.970
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

REFERENCE FILE

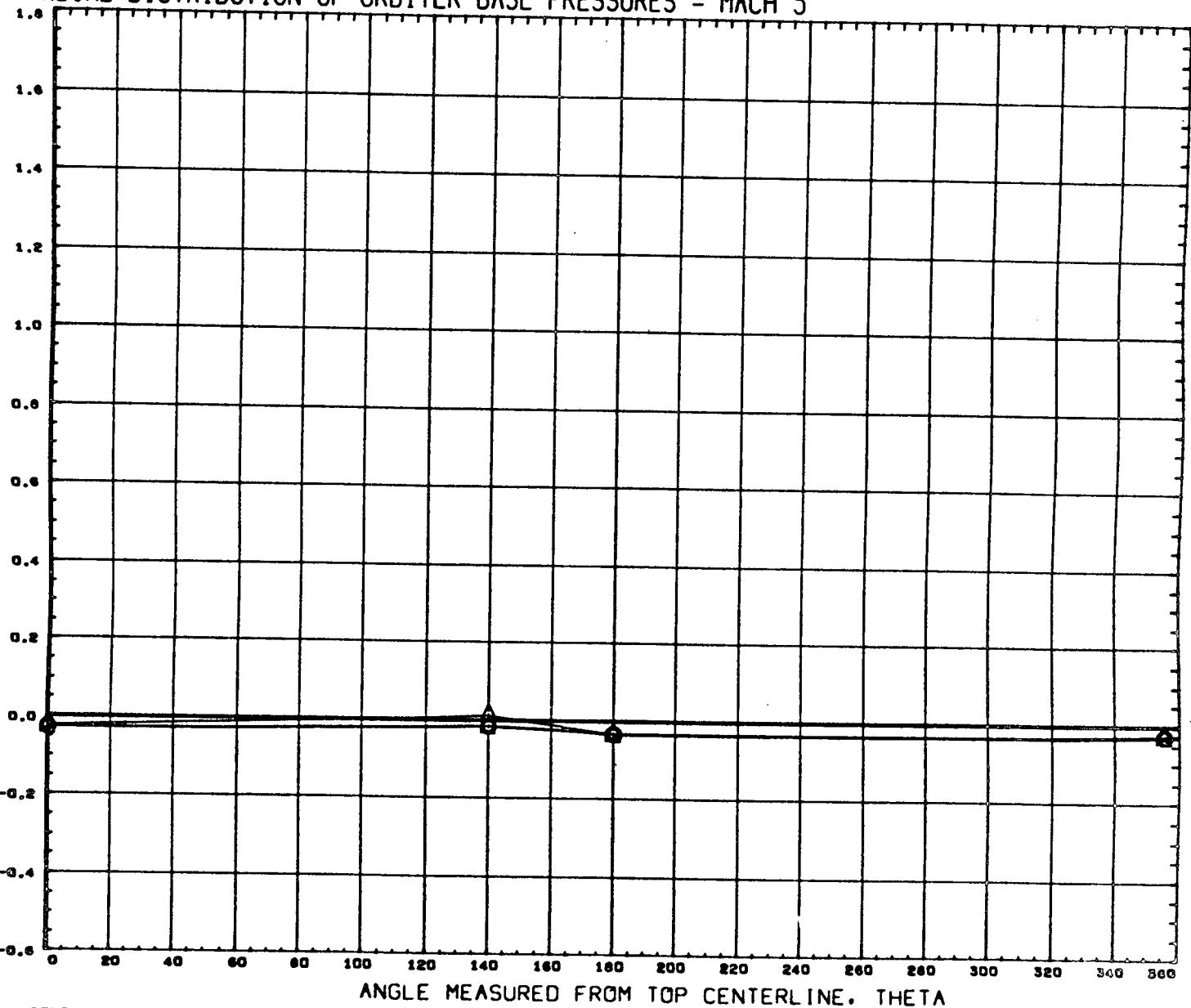
AEDC VA1163 MDAC ORBITER (BASE)

• IT8573 •

PAGE 1079

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL	DELTA X	X/L	DELTA Z
○	-0.144	1.000	0.191
△	0.103		
○	0.226		

PARAMETRIC VALUES			
ALPHAB	0.001	MACH	4.970
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

REFERENCE FILE

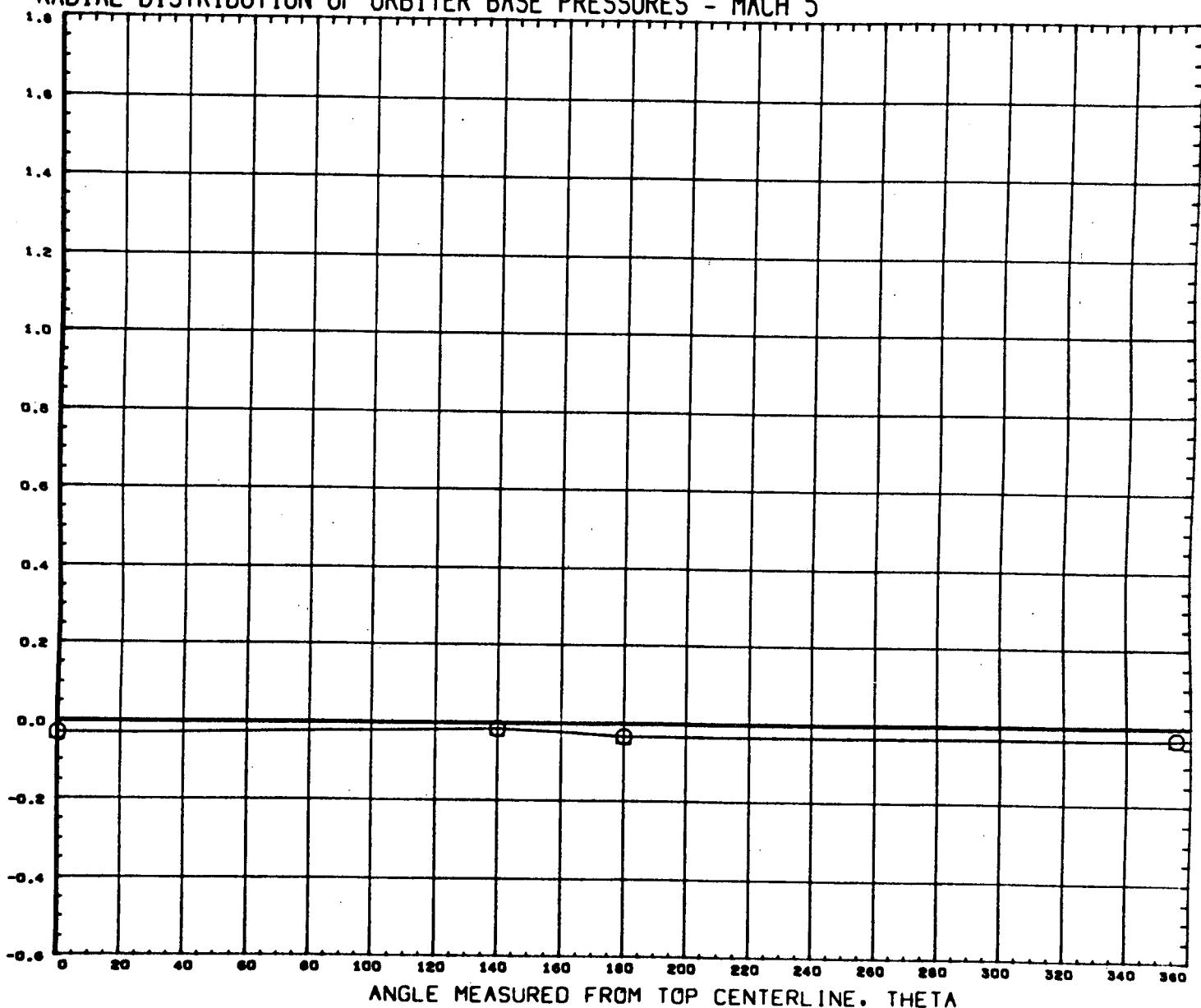
AEDC VA1163 MDAC ORBITER (BASE)

•IT8573•

PAGE 1080

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL DELTAX X/L DELTAZ

(○)

0.520 1.000 0.900

PARAMETRIC VALUES

ALPHAB	0.001	MACH	4.970
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

REFERENCE FILE

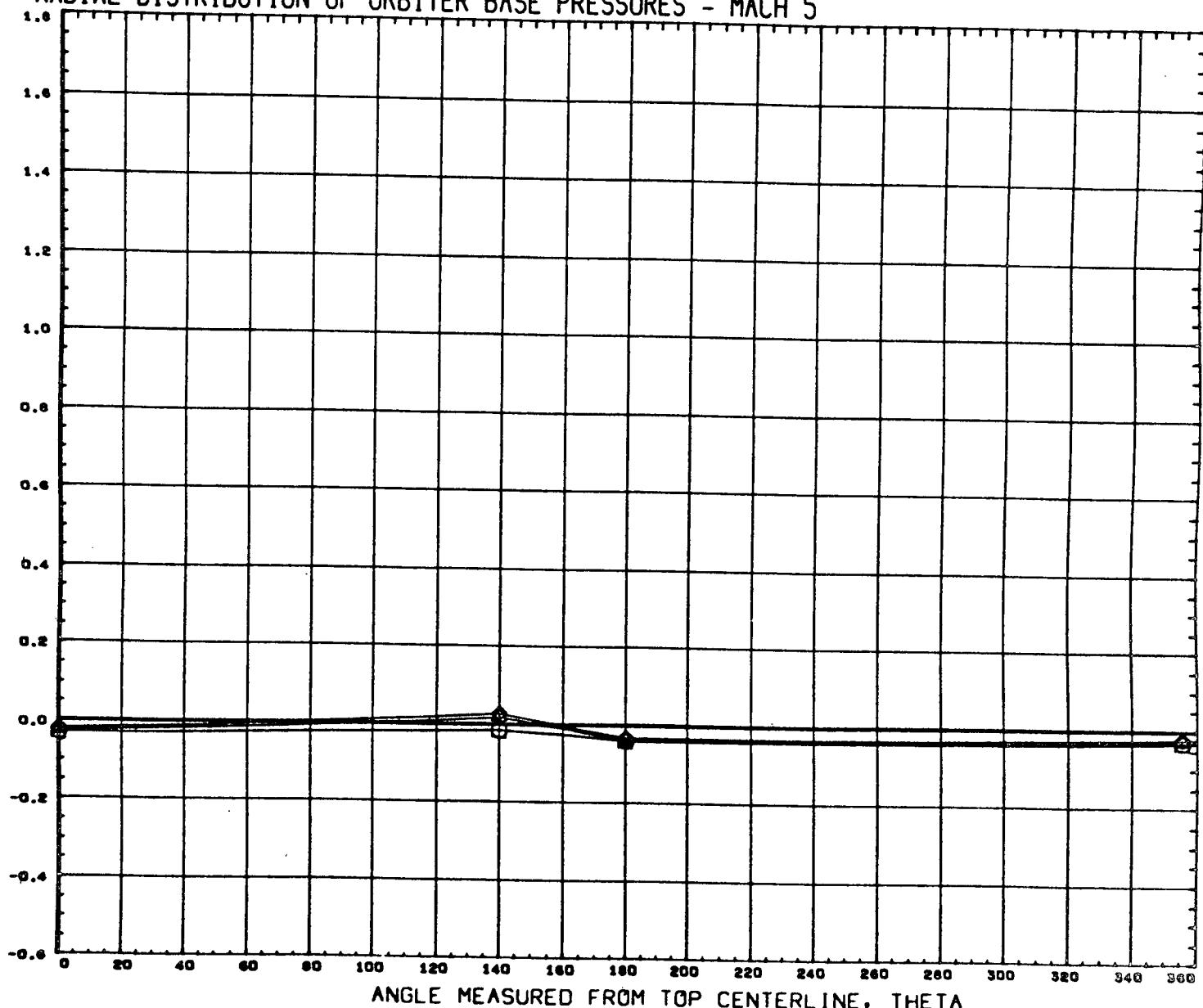
AEDC VA1163 MDAC ORBITER (BASE)

• IT8573 •

PAGE 1081

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL DELTAX X/L DELTAZ
 ◻ -0.144 1.000 0.120
 △ 0.103
 ◇ 0.226

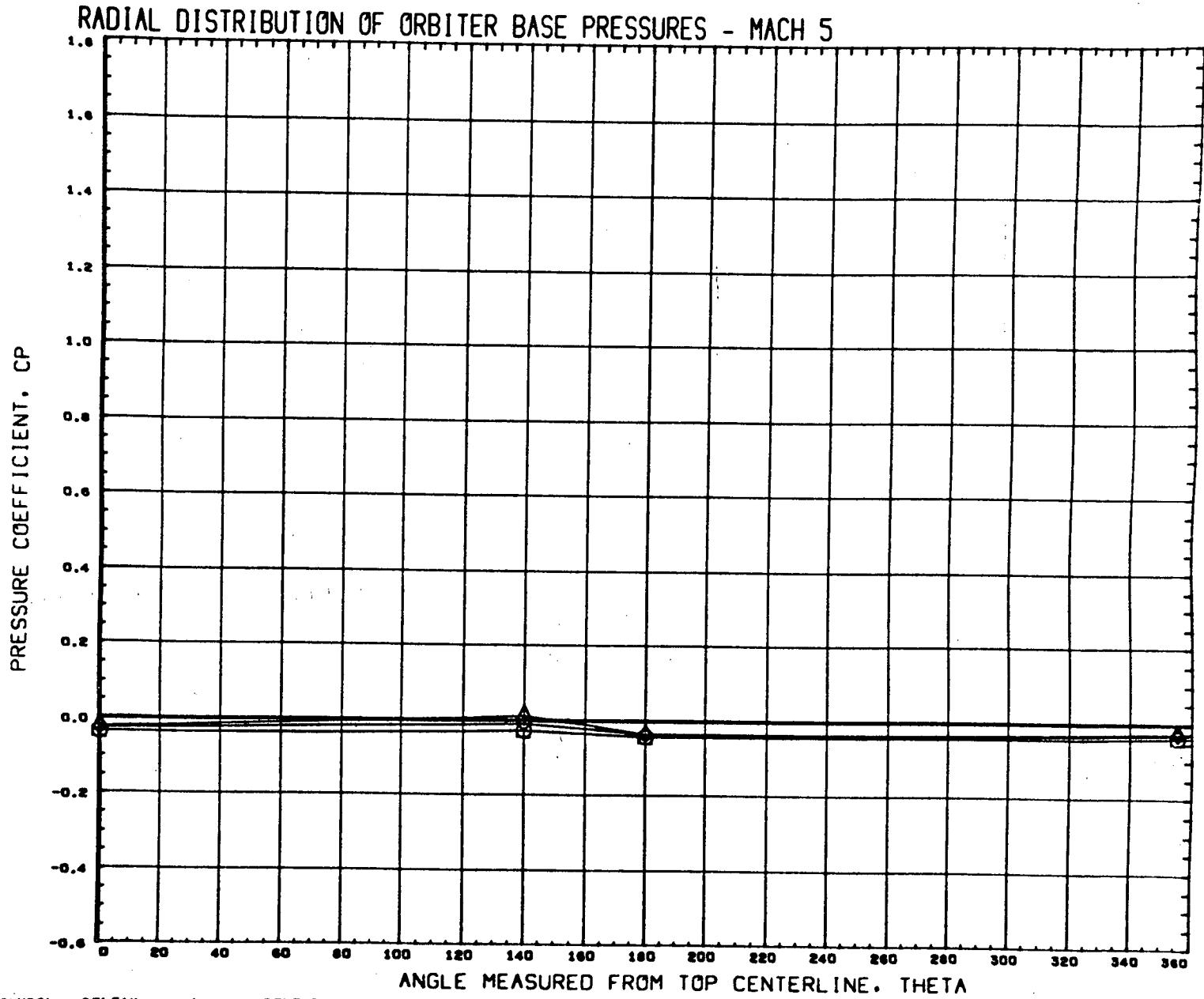
PARAMETRIC VALUES
 ALPHAB 4.994 MACH 4.970
 ALPHAI 0.000 ORBPOW 0.000
 BSTPOW 0.000

REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

• IT8574 •

PAGE 1082



SYMBOL	DELTAX	X/L	DELTAZ
○	- 0.144	1.000	0.191
△	0.103		
◊	0.226		

PARAMETRIC VALUES			
ALPHAB	4.994	MACH	4.970
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

REFERENCE FILE

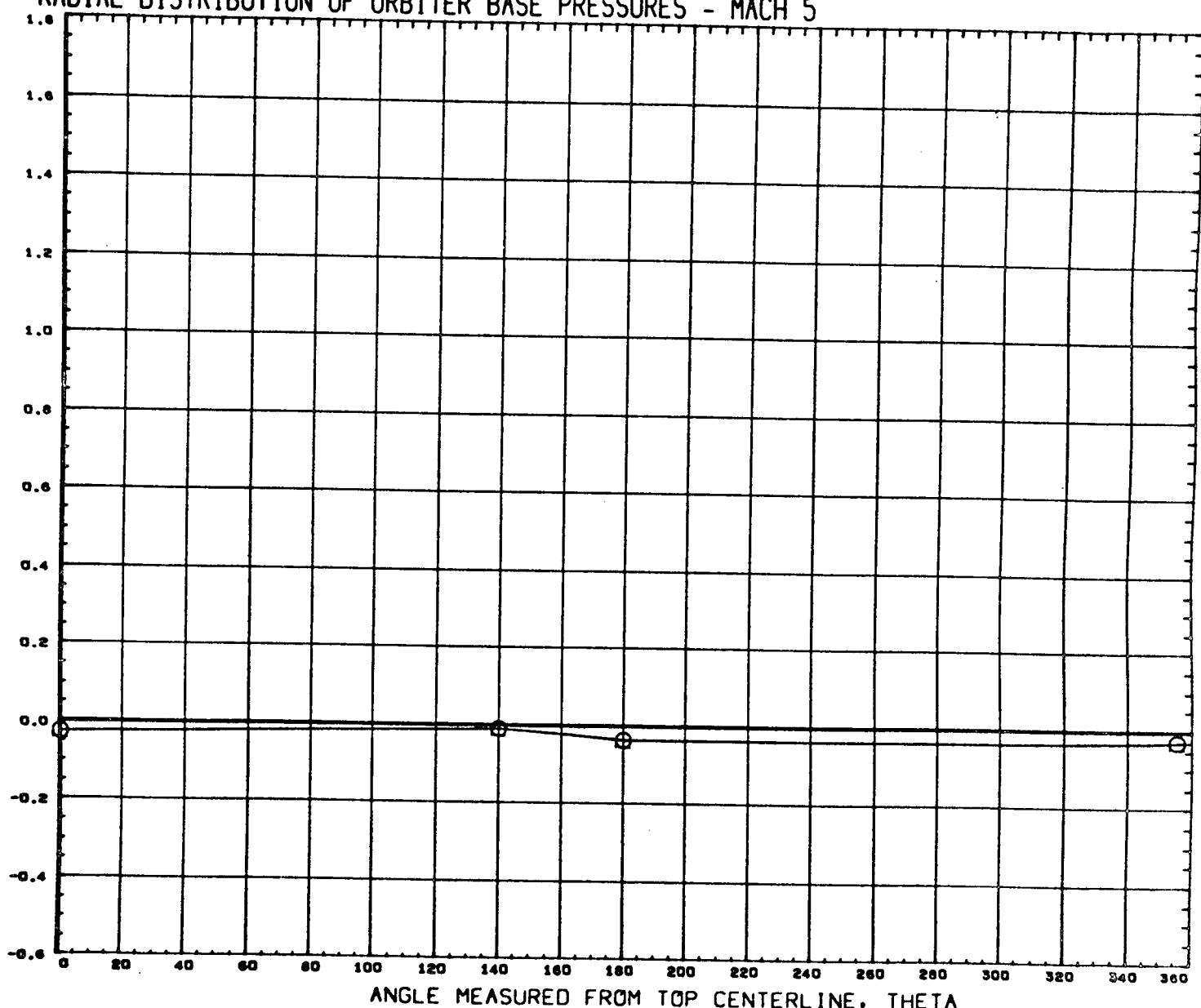
AEDC VA1163 MDAC ORBITER (BASE)

• IT8574 •

PAGE 1083

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL DELTAX X/L DELTAZ
○ 0.520 1.000 0.900

PARAMETRIC VALUES

ALPHAB	4.994	MACH	4.970
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

REFERENCE FILE

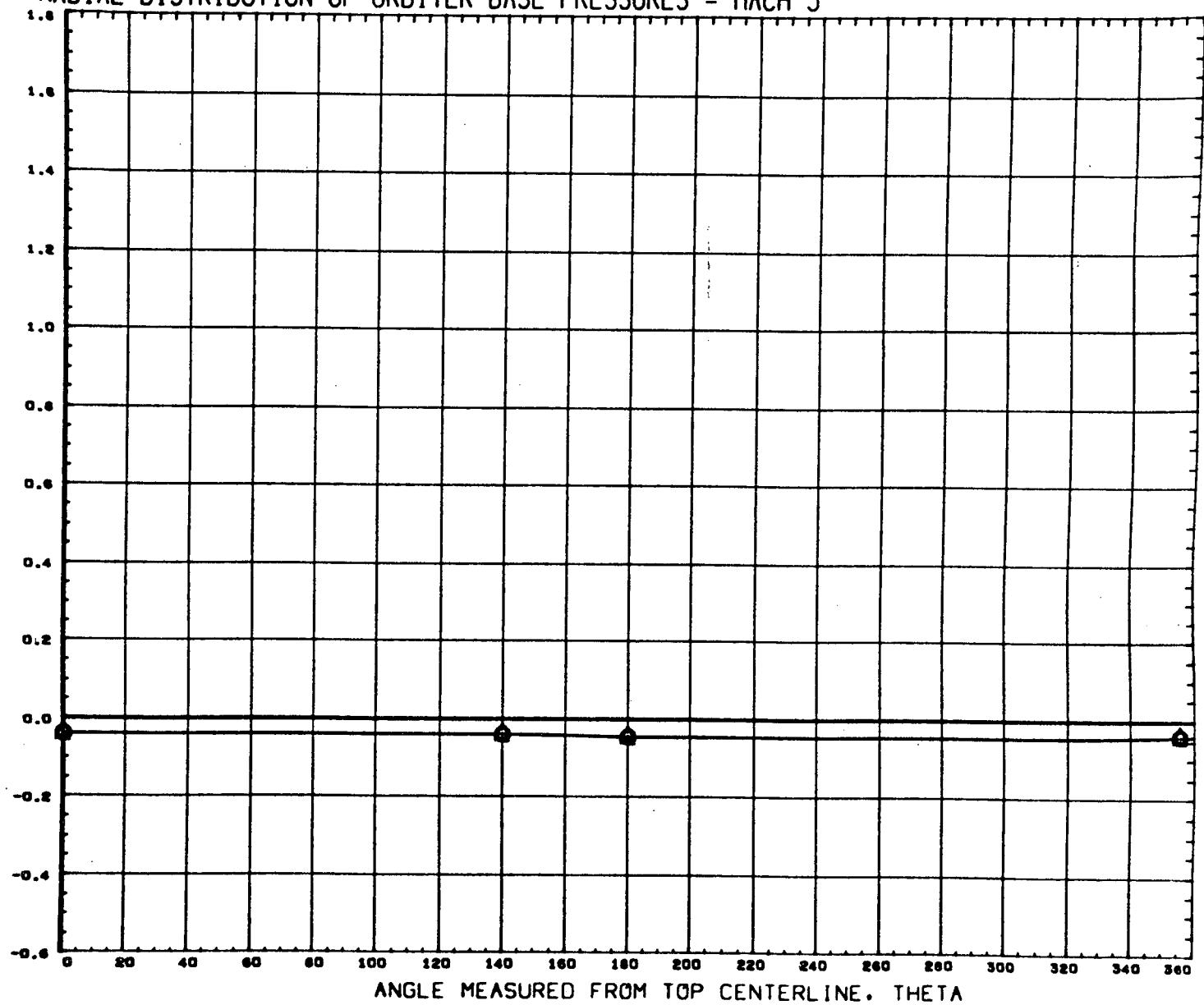
AEDC VA1163 MDAC ORBITER (BASE)

• IT8574 •

PAGE 1084

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL DELTAX X/L DELTAZ
△ - 0.144 1.000 0.120
◊ - 0.103 0.226

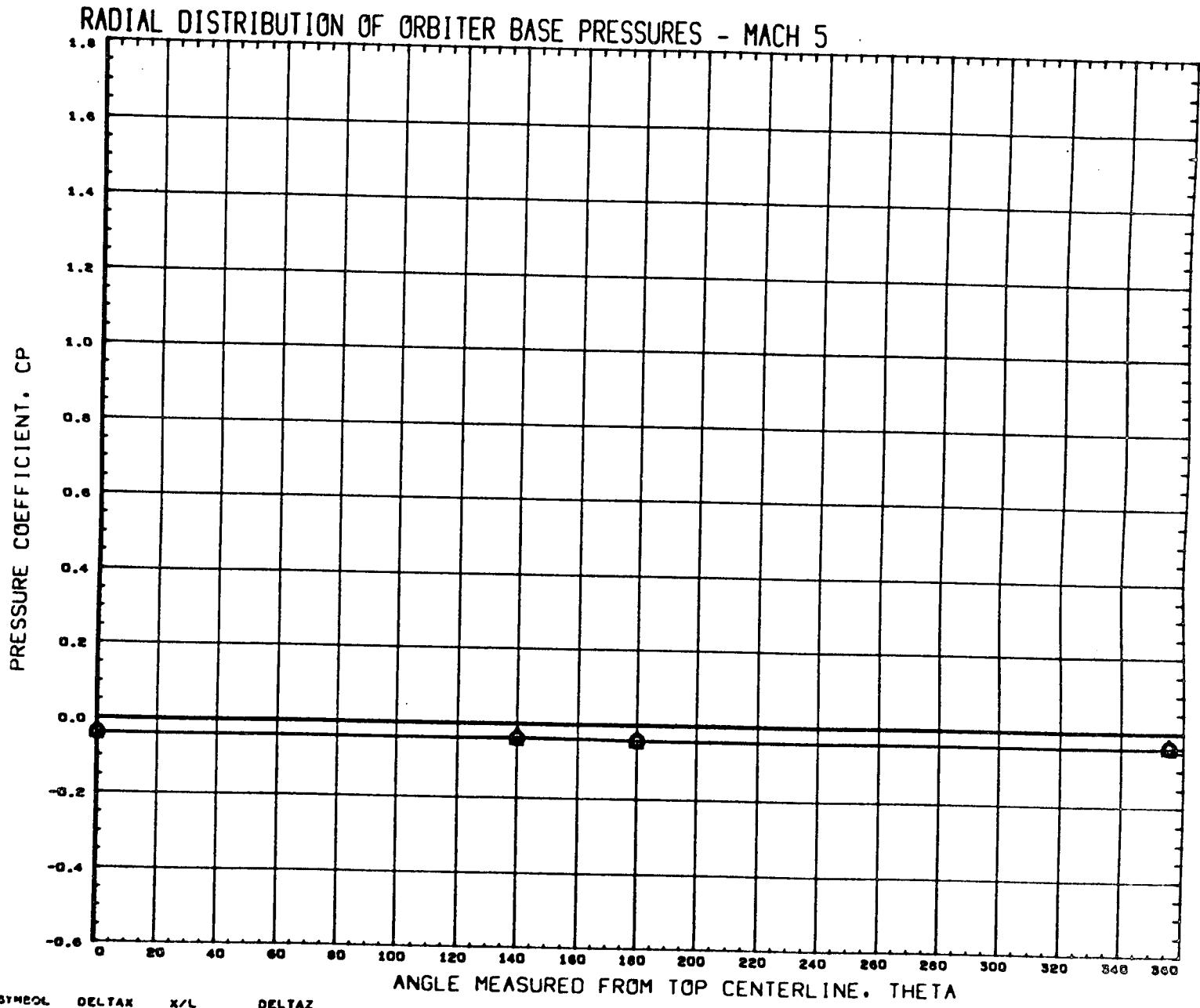
	ALPHAB	MACH	ORBPOW
ALPHAI	0.000	5.040	0.000
BSTPOW	0.000		

REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

• IT8583 •

PAGE 1085



SYMBOL	DELTA X	X/L	DELTA Z
Δ	-0.144	1.000	0.151
\square	0.103		
\diamond	0.226		

PARAMETRIC VALUES			
ALPHAB	0.000	MACH	5.040
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

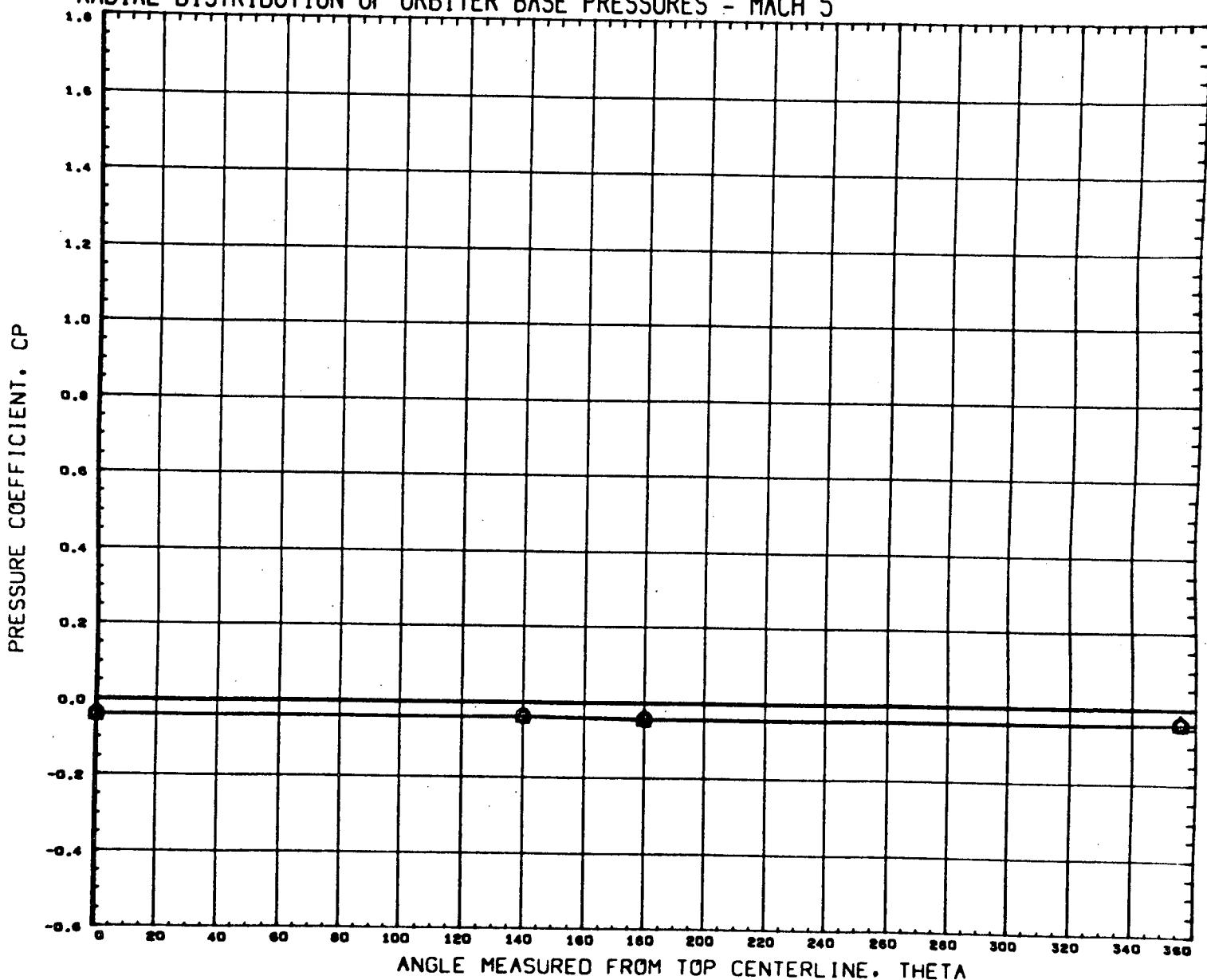
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

• IT8583 •

PAGE 1086

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL	DELTA X	X/L	DELTA Z
Δ	-0.144	1.000	0.226
\diamond	0.103		
\diamond	0.226		

PARAMETRIC VALUES			
ALPHAB	0.000	MACH	5.040
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

REFERENCE FILE

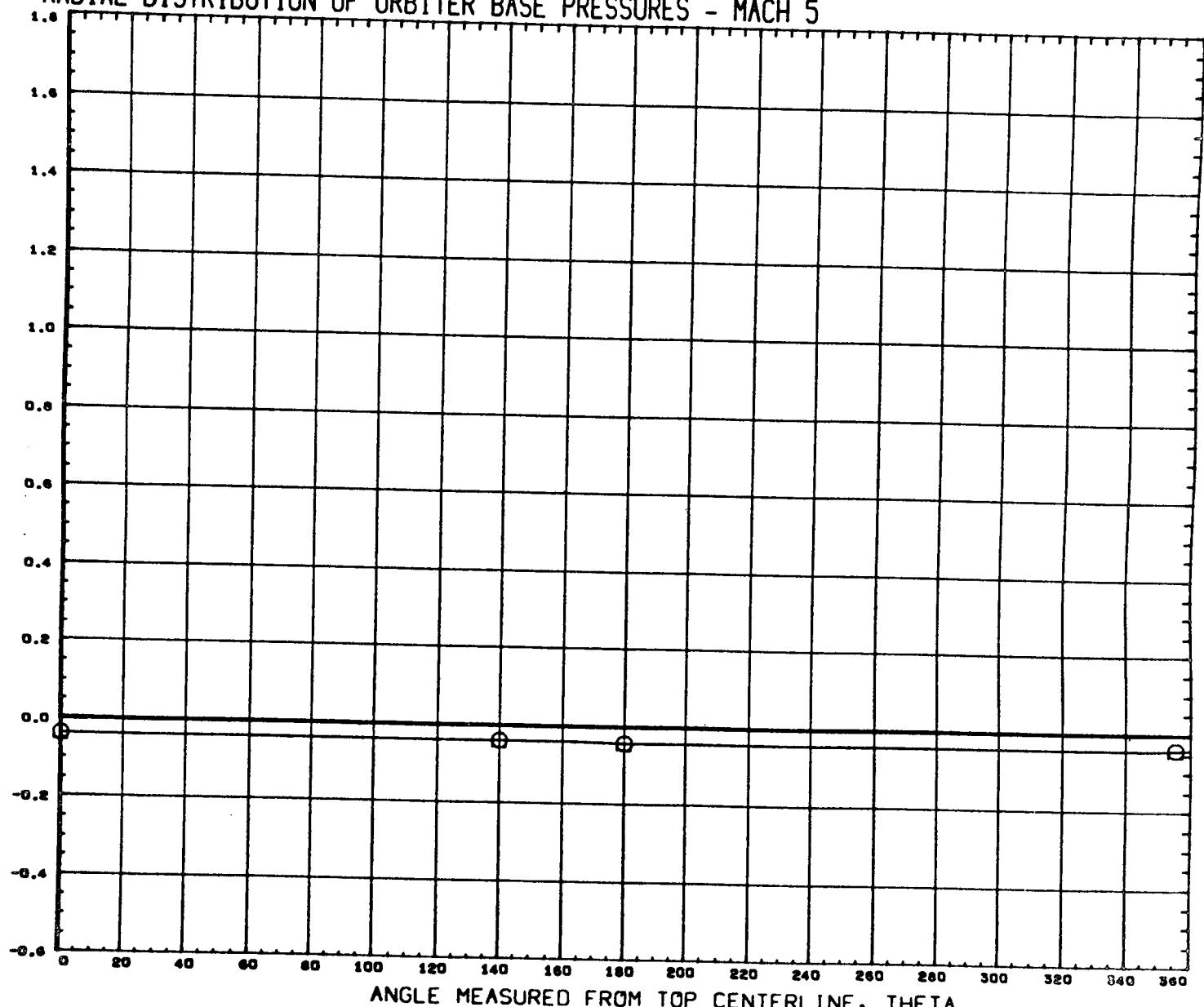
AEDC VA1163 MDAC ORBITER (BASE)

•IT8583•

PAGE 1087

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL DELTAX X/L DELTAZ
C 0.920 1.000 0.908

PARAMETRIC VALUES			
ALPHAB	0.000	MACH	5.040
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

REFERENCE FILE

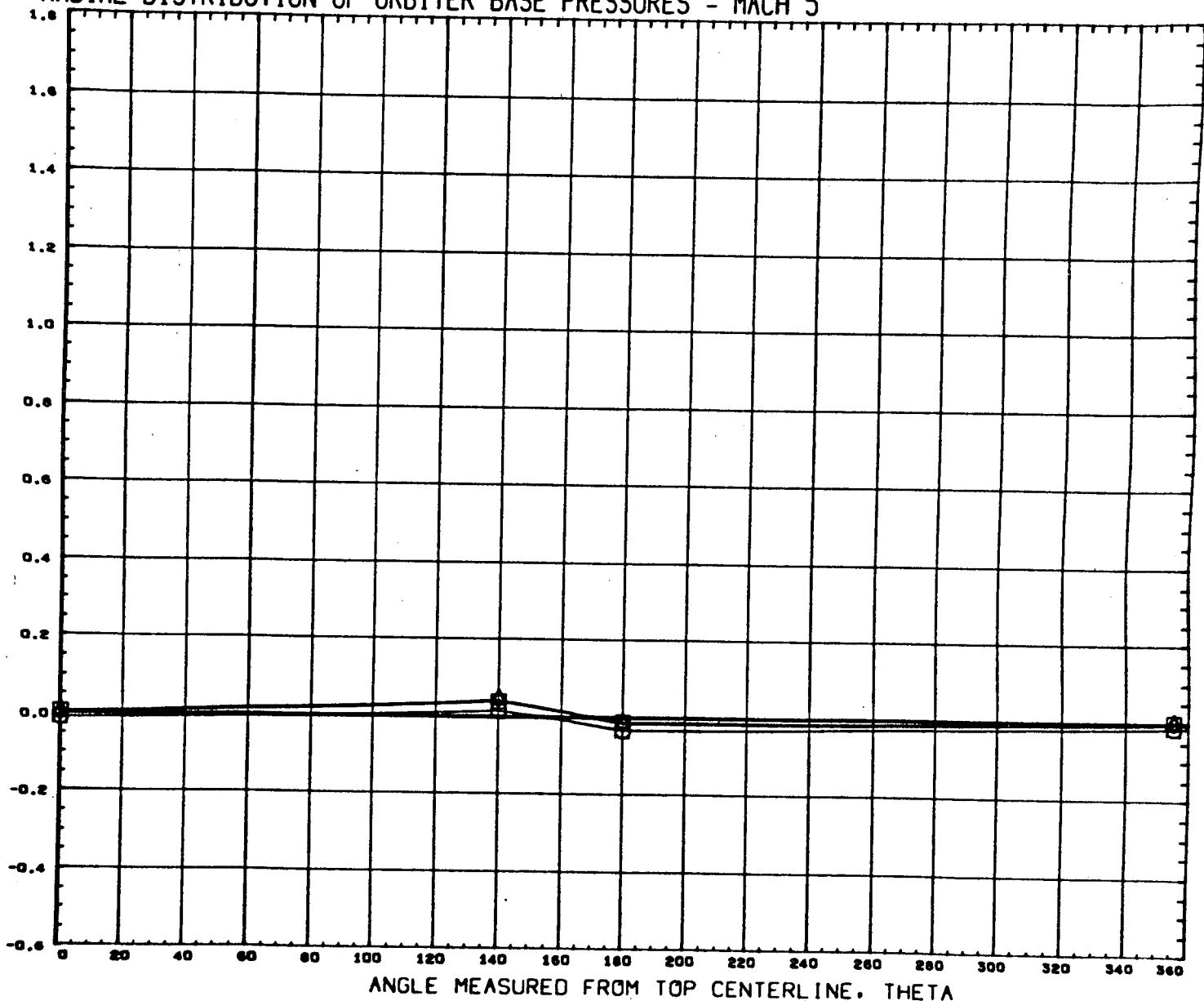
AEDC VA1163 MDAC ORBITER (BASE)

• IT8583 •

PAGE 1088

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL DELTAX X/L DELTAZ

- - 0.179 1.000 0.106
- △ 0.041
- ◊ 0.103
- 0.164

PARAMETRIC VALUES

	ALPHAS	MACH	ORBPOW
ALPHAI	0.000	4.970	0.000
BSTPOW	0.000		

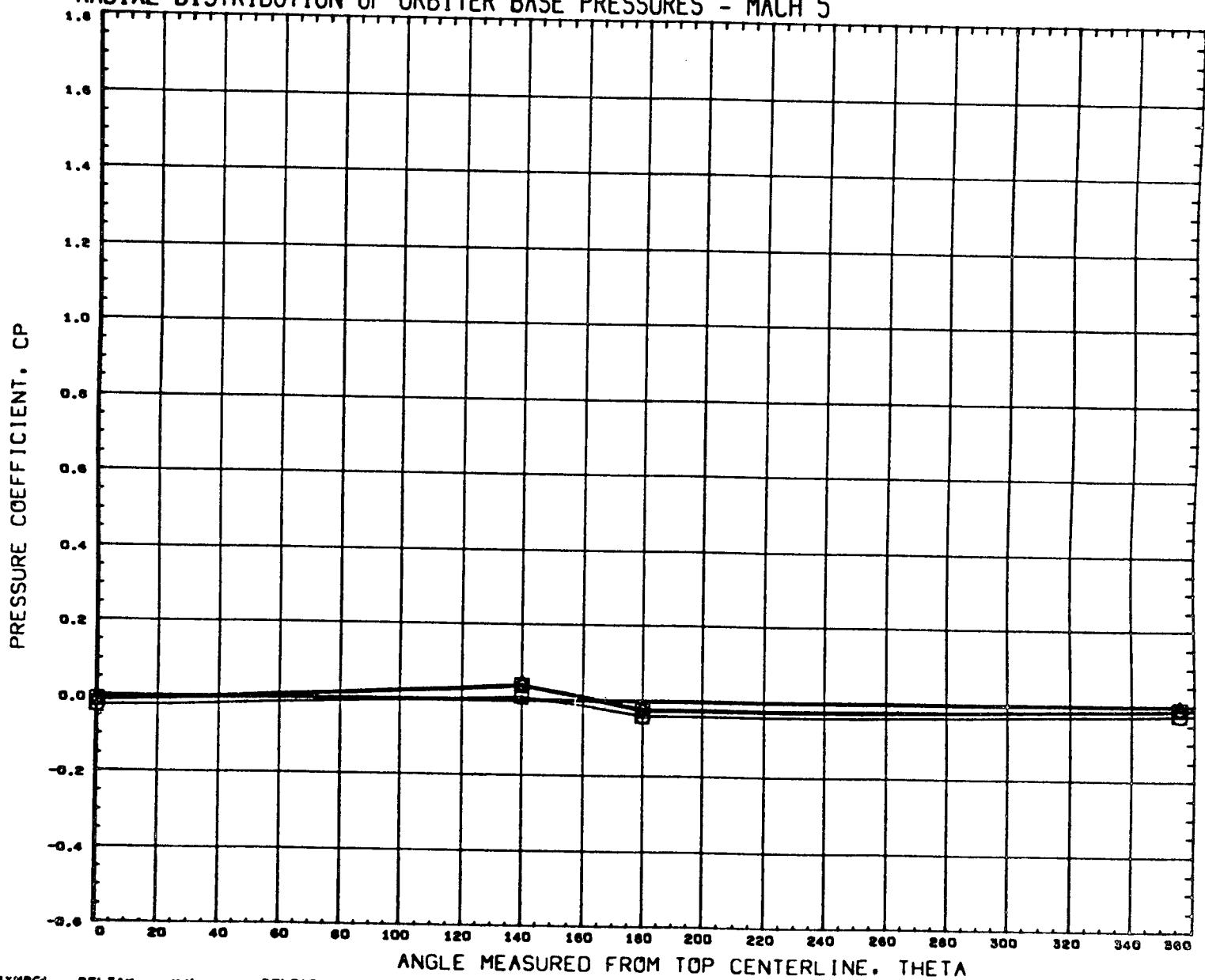
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

• IT8591 •

PAGE 1089

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL DELTAX X/L DELTAZ
C - 0.179 1.000 0.106
Δ 0.041
◊ 0.103
□ 0.104

PARAMETRIC VALUES
 ALPHAB = 4.957 MACH = 4.970
 ALPHAI = 0.000 ORBPOW = 0.000
 BSTPOW = 0.000

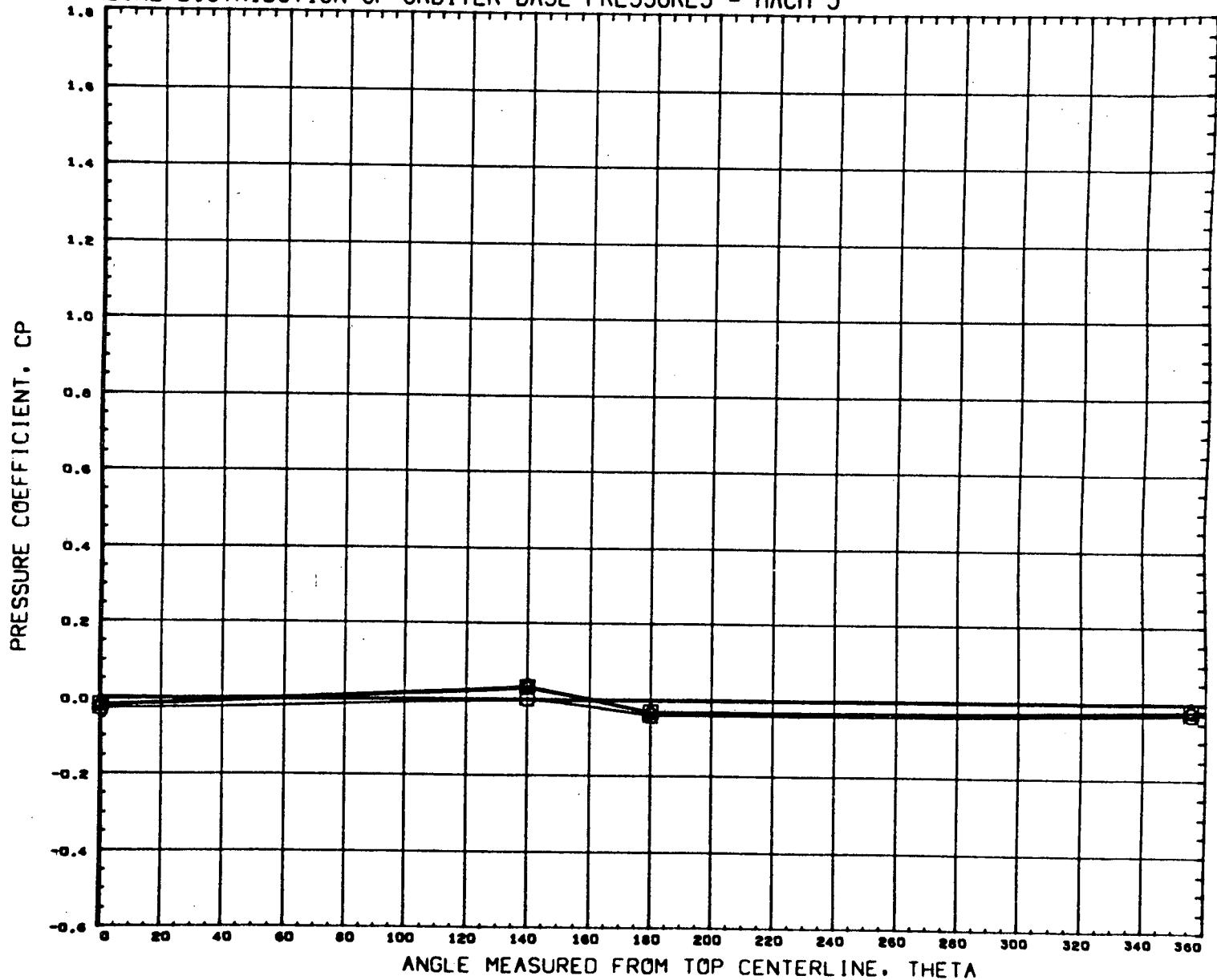
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

•1T8592•

PAGE 1090

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL DELTAX X/L DELTAZ
 - 0.179 1.000 0.106
 ◇ 0.041
 ◊ 0.103
 □ 0.164

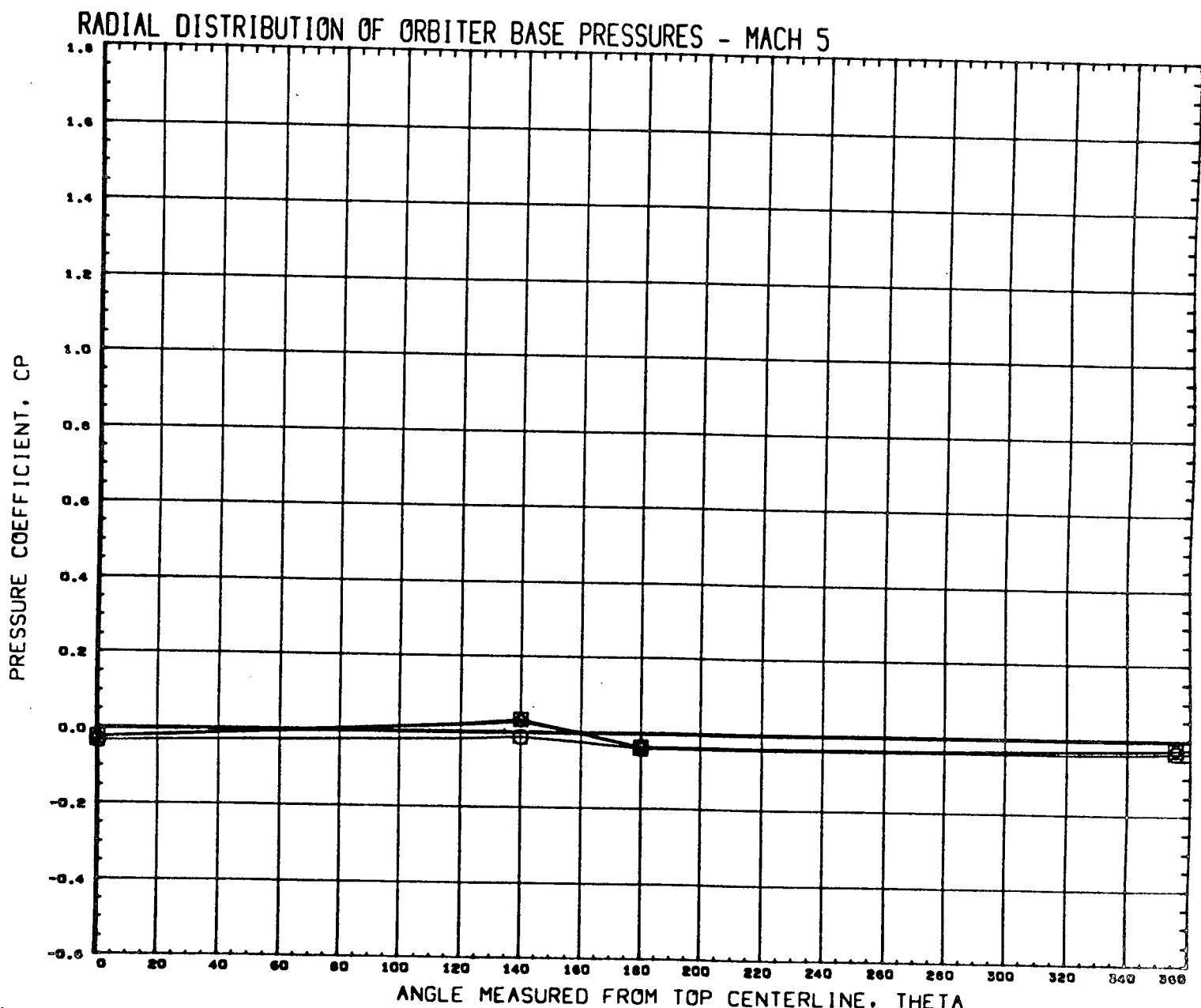
PARAMETRIC VALUES
 ALPHAB 0.000 MACH 4.970
 ALPHAT 0.000 ORBPOW 0.000
 BSTPOW 0.000

REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

• IT8593 •

PAGE 1091



SYMBOL	DELTA X	X/L	DELTA Z
\circ	-0.179	1.000	0.106
Δ	0.041		
\diamond	0.103		
\square	0.164		

PARAMETRIC VALUES			
ALPHAB	5.035	MACH	4.970
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

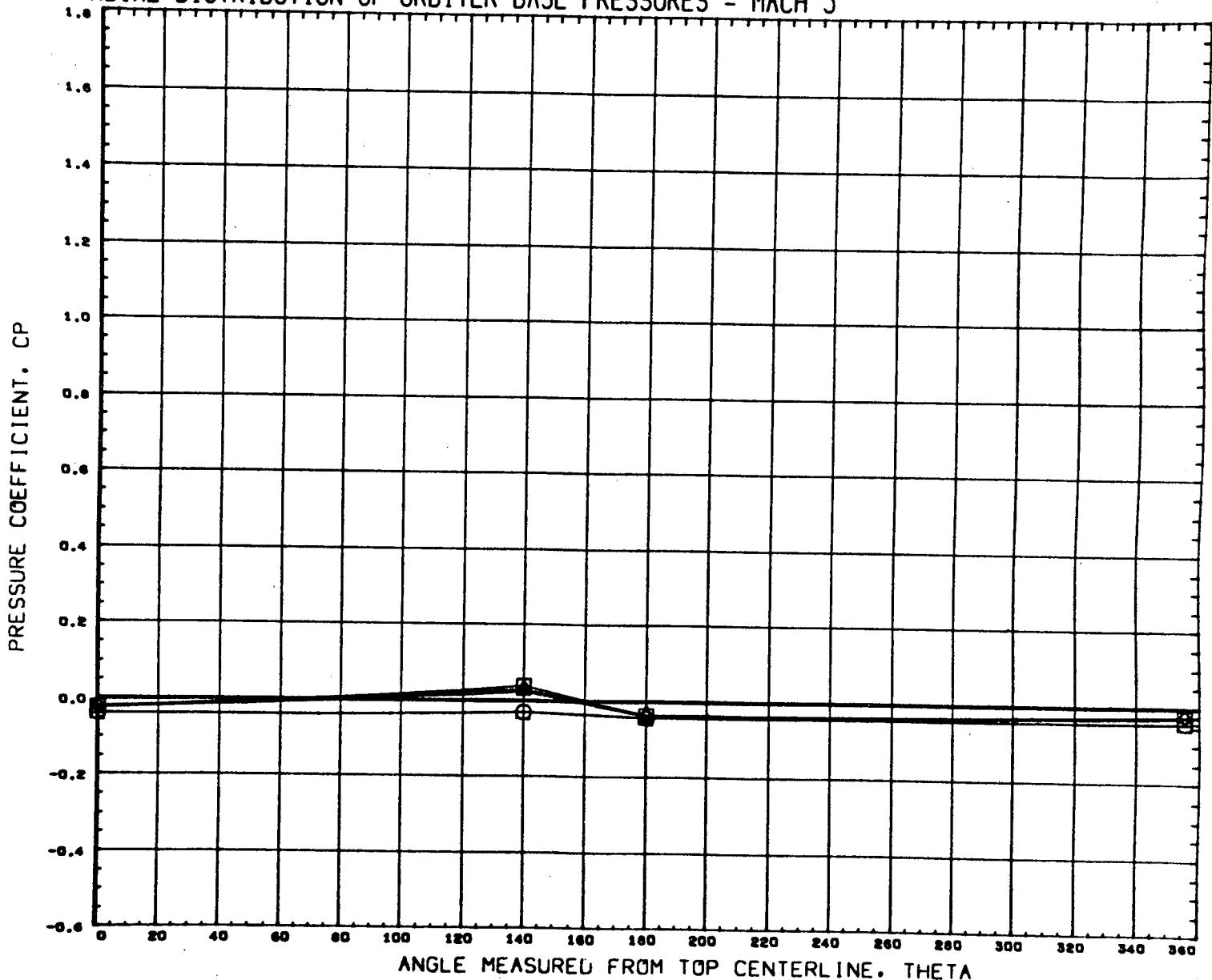
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

• IT8594 •

PAGE 1092

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL DELTAX X/L DELTAZ
 - 0.179 1.000 0.106
 ◇ 0.041
 ◊ 0.103
 □ 0.164

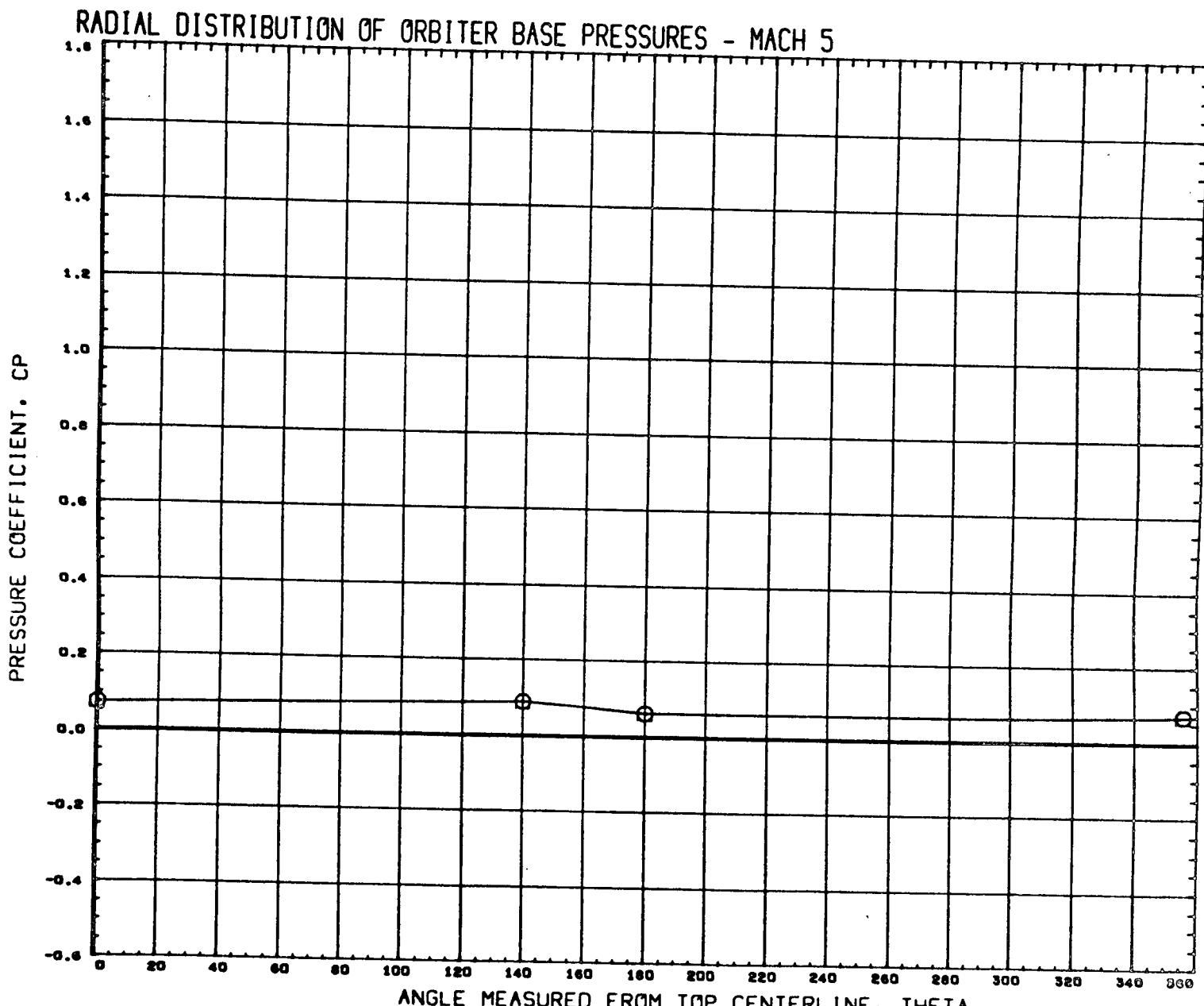
PARAMETRIC VALUES
 ALPHAB 0.992 MACH 4.970
 ALPHAI 0.000 ORBPOW 0.000
 BSTPOW 0.000

REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

• IT8595 •

PAGE 1093



SYMBOL DELTAX X/L DELTAZ
 \square - 0.179 1.000 0.106

PARAMETRIC VALUES
 ALPHAB - 9.980 MACH 4.970
 ALPHAI 0.000 ORBPOW 100.000
 BSTPOW 100.000

REFERENCE FILE

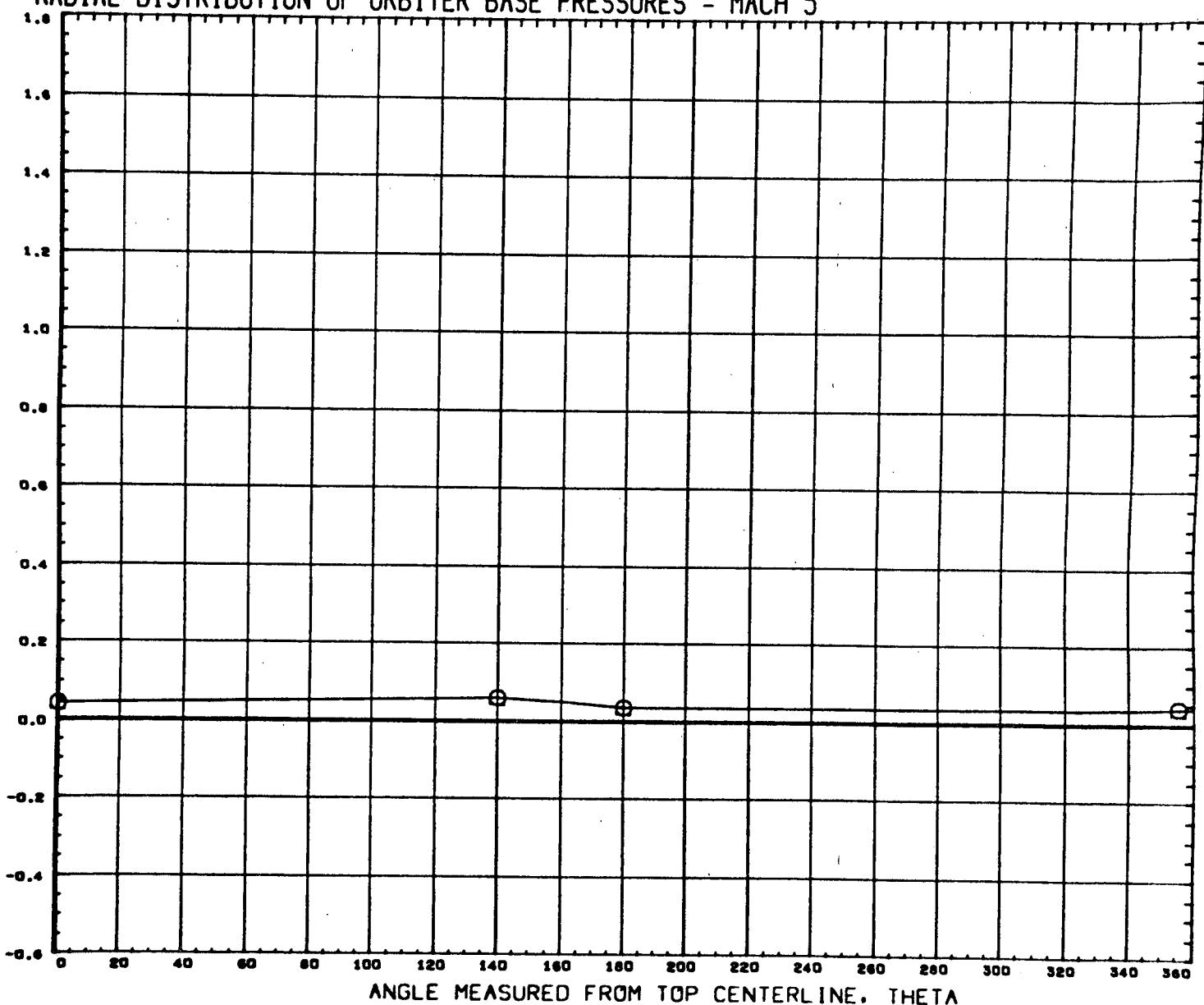
AEDC VA1163 MDAC ORBITER (BASE)

•IT8601•

PAGE 1094

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL DELTAX X/L DELTAZ
C - 0.179 1.000 0.106

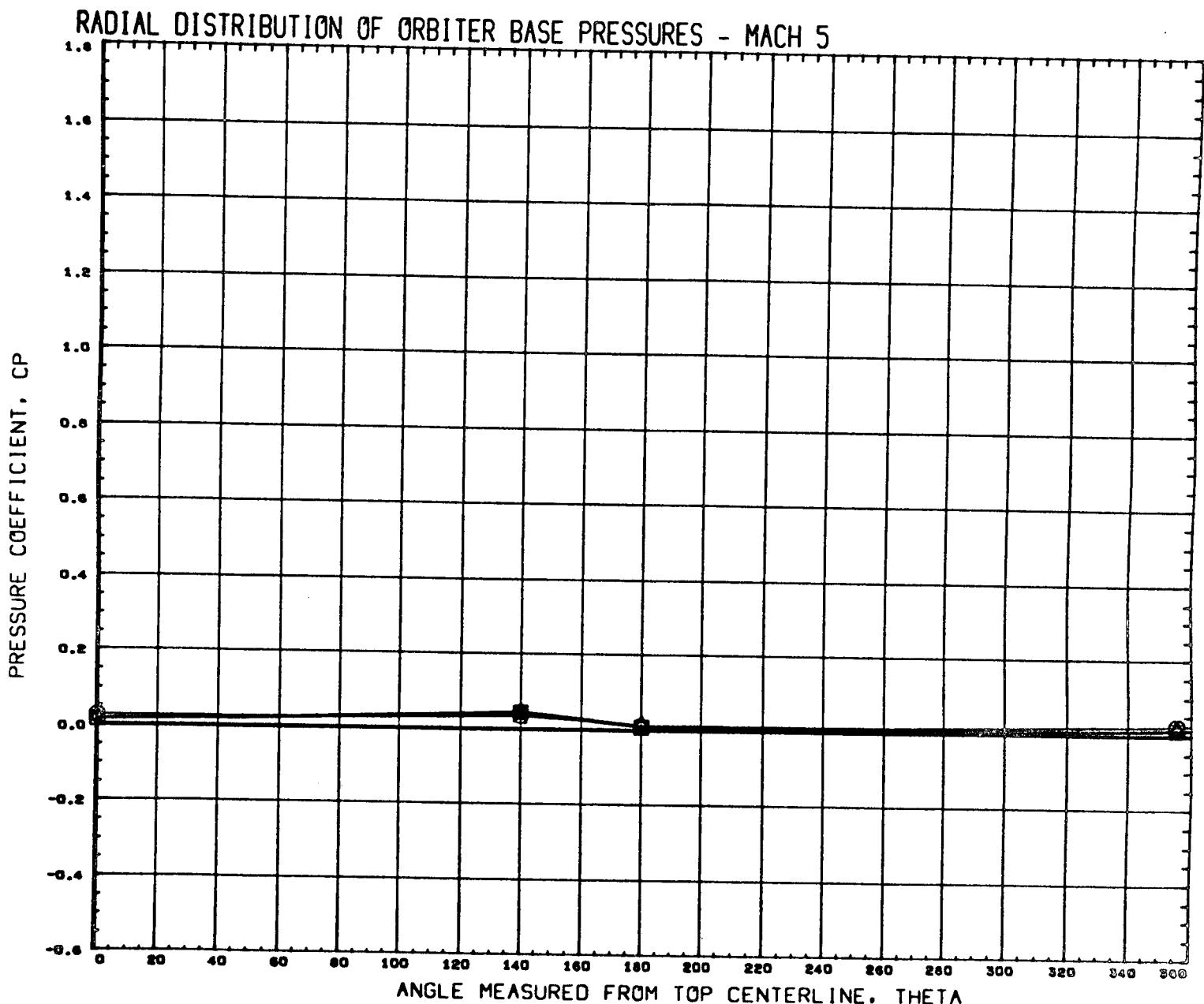
PARAMETRIC VALUES
ALPHAB = 4.960 MACH 4.970
ALPHAI 0.000 ORBPOW 100.000
BSPOW 100.000

REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

• IT8602 •

PAGE 1095



SYMBOL DELTAX X/L DELTAZ

- 0.179 1.000 0.106

◊ 0.048

□ 0.103

□ 0.104

PARAMETRIC VALUES

	ALPHAS	MACH
ALPHAT	0.000	4.970
BSTPOW	100.000	ORBPOW

REFERENCE FILE

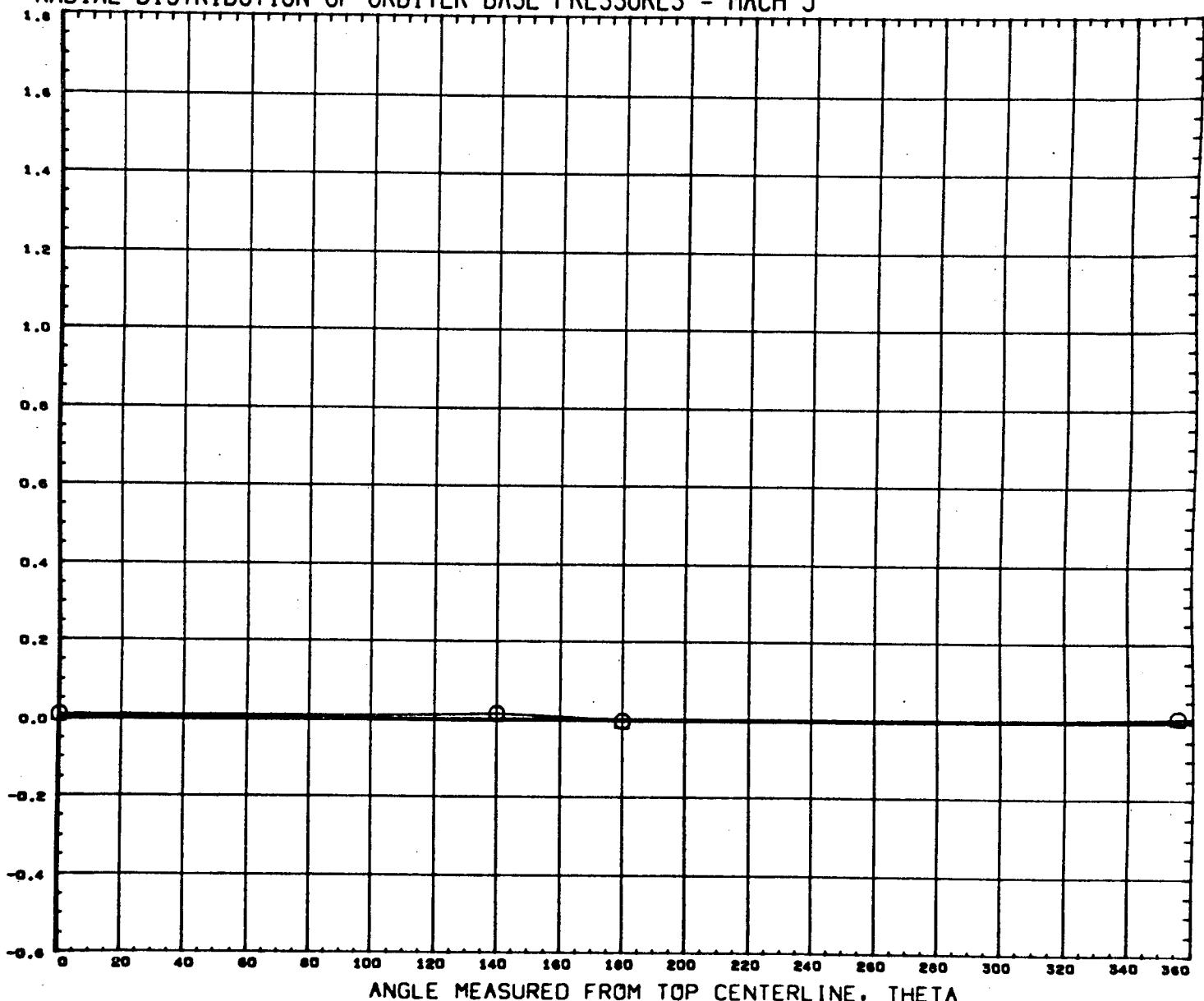
AEDC VA1163 MDAC ORBITER (BASE)

• IT8603 •

PAGE 1096

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL DELTAX X/L DELTAZ
C - 0.179 1.000 0.106

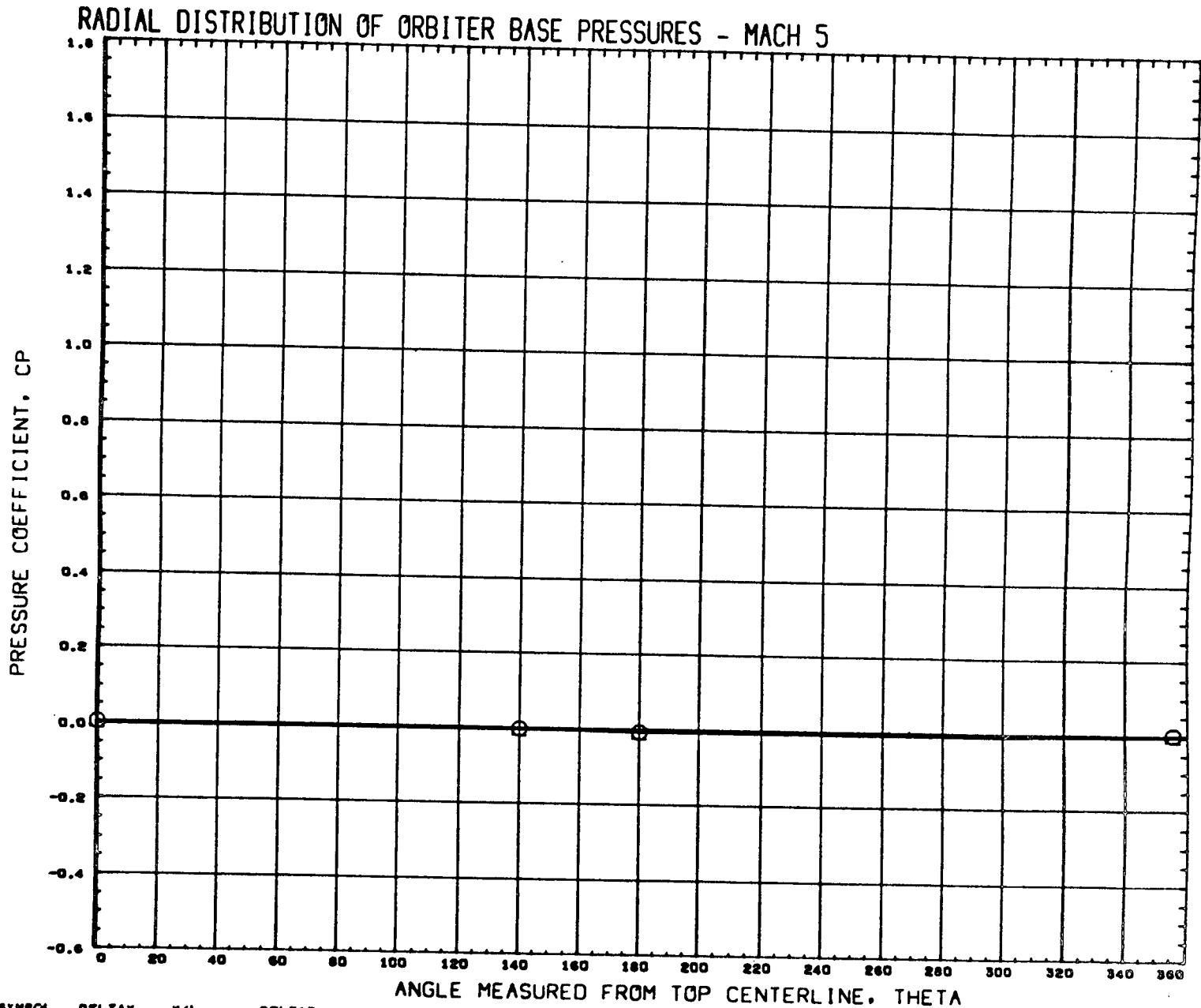
	ALPHAB	MACH	ORBPOW
ALPHAI	0.040	4.970	100.000
BSTPOW	0.000		

REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

• IT8604 •

PAGE 1097



SYMBOL DELTAX X/L DELTAZ
C - 0.179 1.000 0.106

PARAMETRIC VALUES			
ALPHAB	9.990	MACH	4.970
ALPHAI	0.000	ORBPOW	100.000
BSTPOW	100.000		

REFERENCE FILE

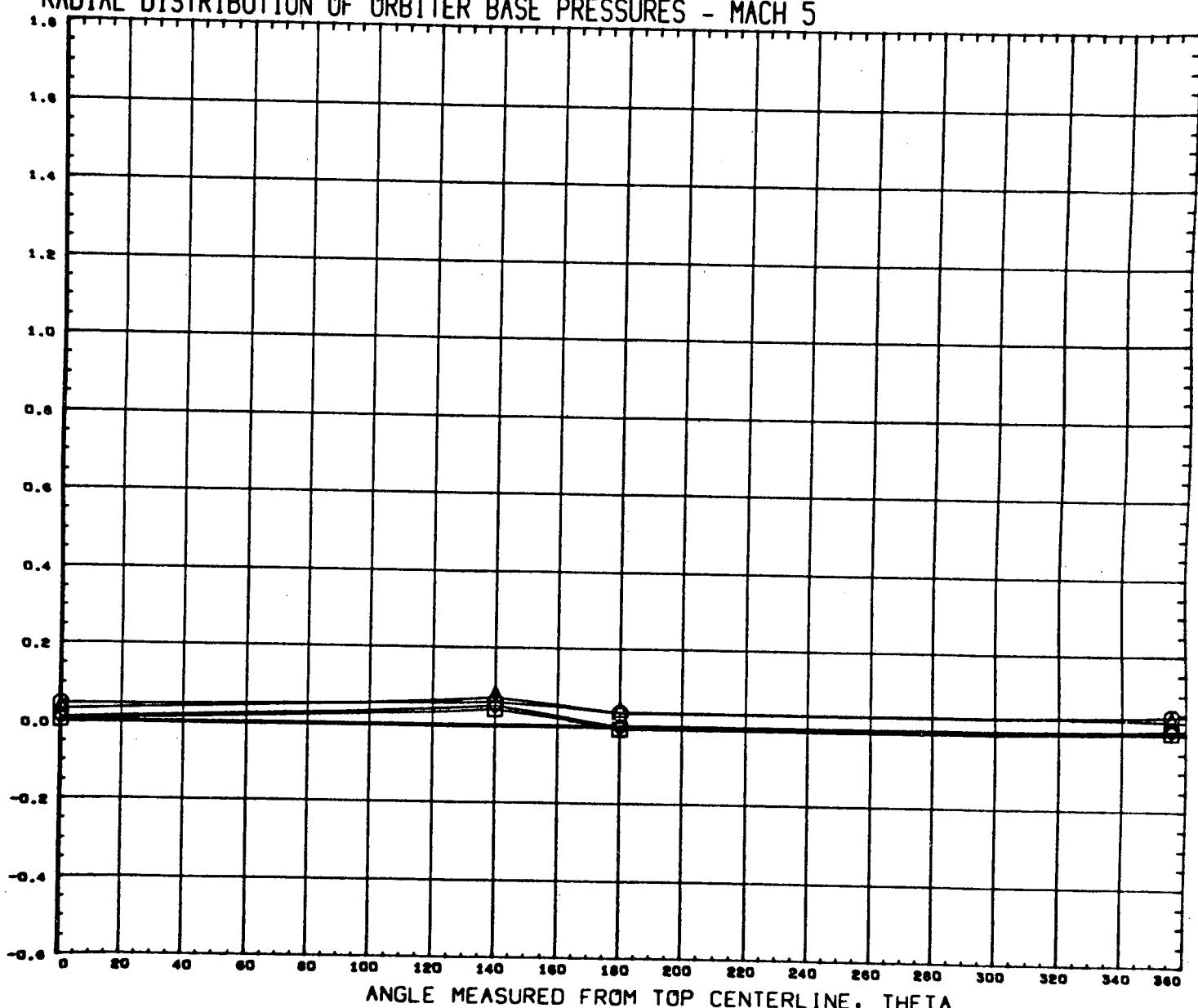
AEDC VA1163 MDAC ORBITER (BASE)

•IT8605•

PAGE 1098

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL DELTAX X/L DELTAZ
 ○ - 0.178 1.000 0.106
 △ 0.041
 ◇ 0.103
 □ 0.164

PARAMETRIC VALUES
 ALPHAB - 9.980 MACH 4.970
 ALPHA1 0.000 ORBPOW 0.000
 BBTPW 100.000

REFERENCE FILE

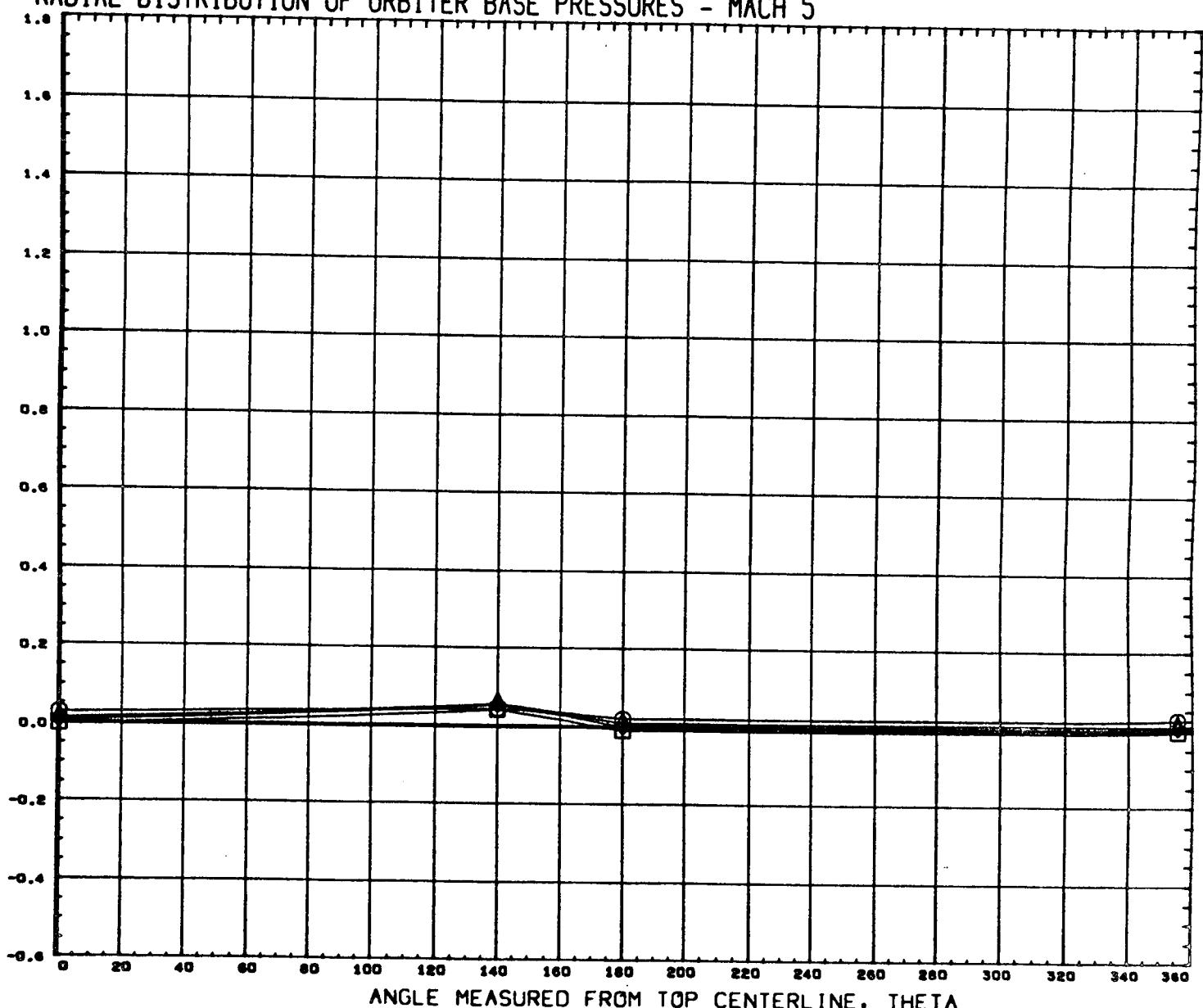
AEDC VA1163 MDAC ORBITER (BASE)

• IT8611 •

PAGE 1099

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL DELTAX X/L DELTAZ
 - 0.179 1.000 0.106
 □ 0.041
 Δ 0.303
 C 0.364

PARAMETRIC VALUES

ALPHAB	- 4.950	MACH	4.970
ALPHAT	0.000	ORBPOW	0.000
BSTPOW	100.000		

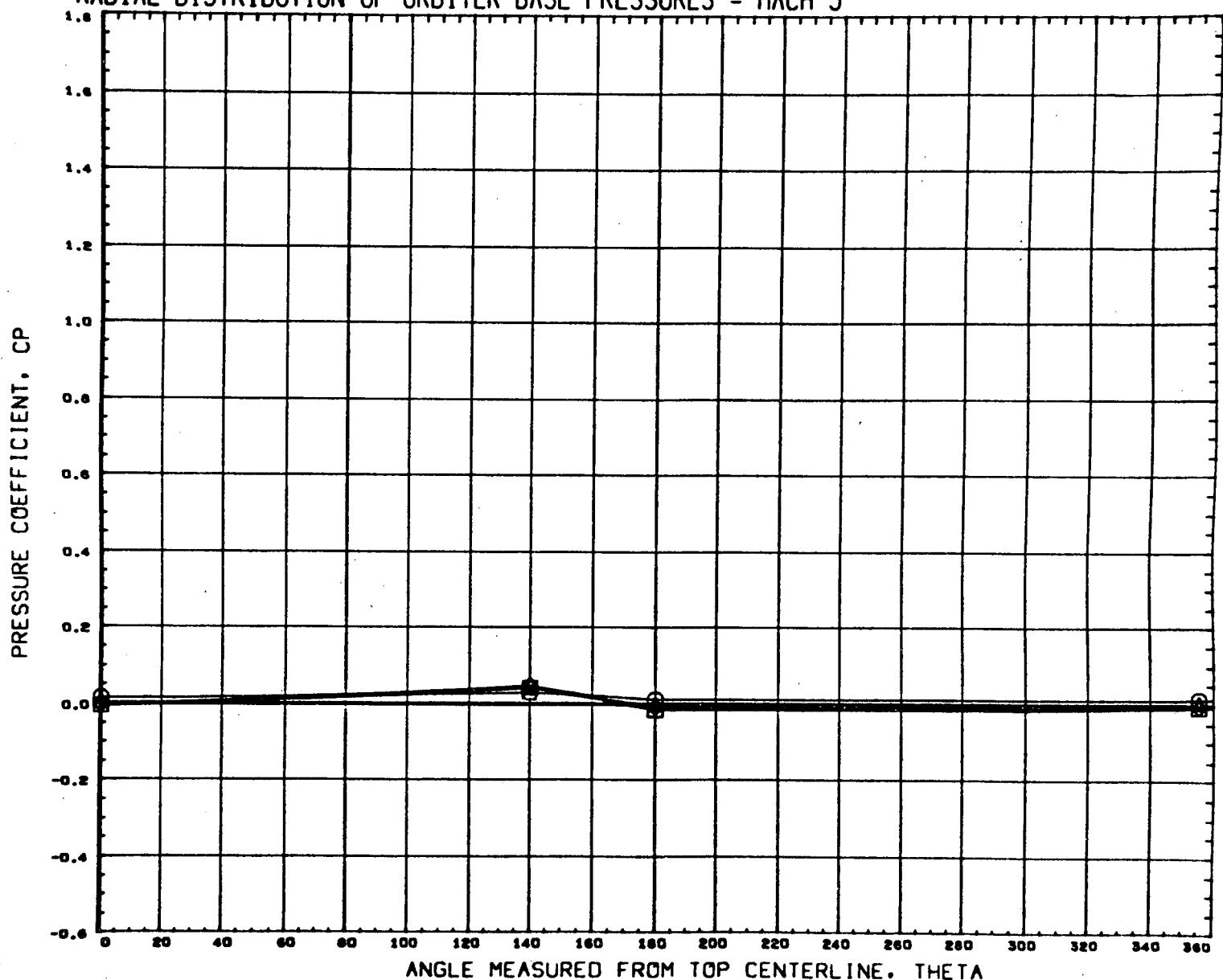
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

• IT8612 •

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RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL DELTAX X/L DELTAZ
 - 0.179 1.000 0.106
 ◇ 0.041
 □ 0.103
 Δ 0.164

PARAMETRIC VALUES
 ALPHAB 0.000 MACH 4.970
 ALPHAI 0.000 ORBPOW 0.000
 BBTPOW 100.000

REFERENCE FILE

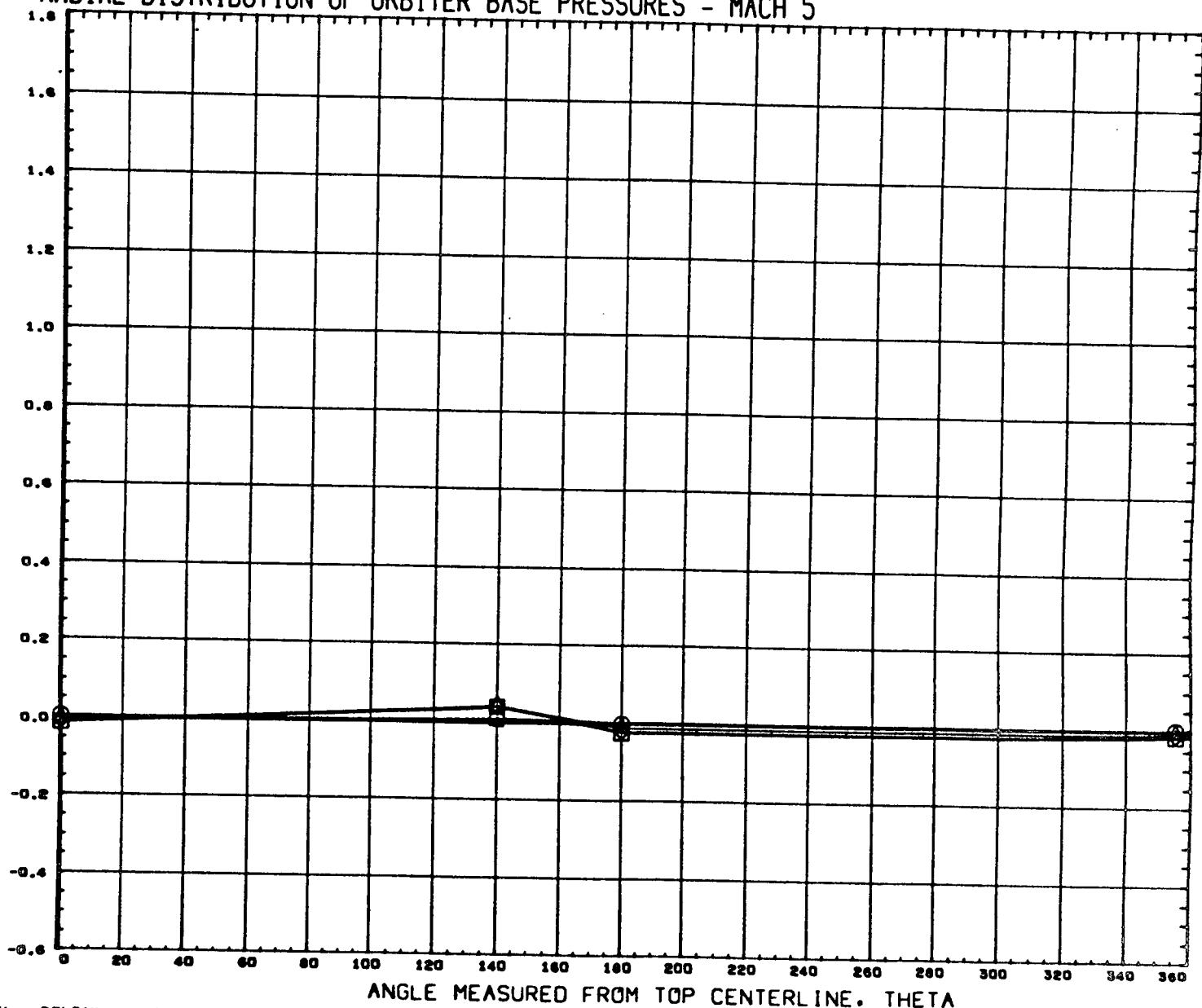
AEDC VA1163 MDAC ORBITER (BASE)

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RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



ANGLE MEASURED FROM TOP CENTERLINE. THETA

SYMBOL	DELTA X	X/L	DELTA Z
-	0.179	1.000	0.106
○	0.041		
◊	0.103		
□	0.164		

PARAMETRIC VALUES			
ALPHAB	5.037	MACH	4.970
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	100.000		

REFERENCE FILE

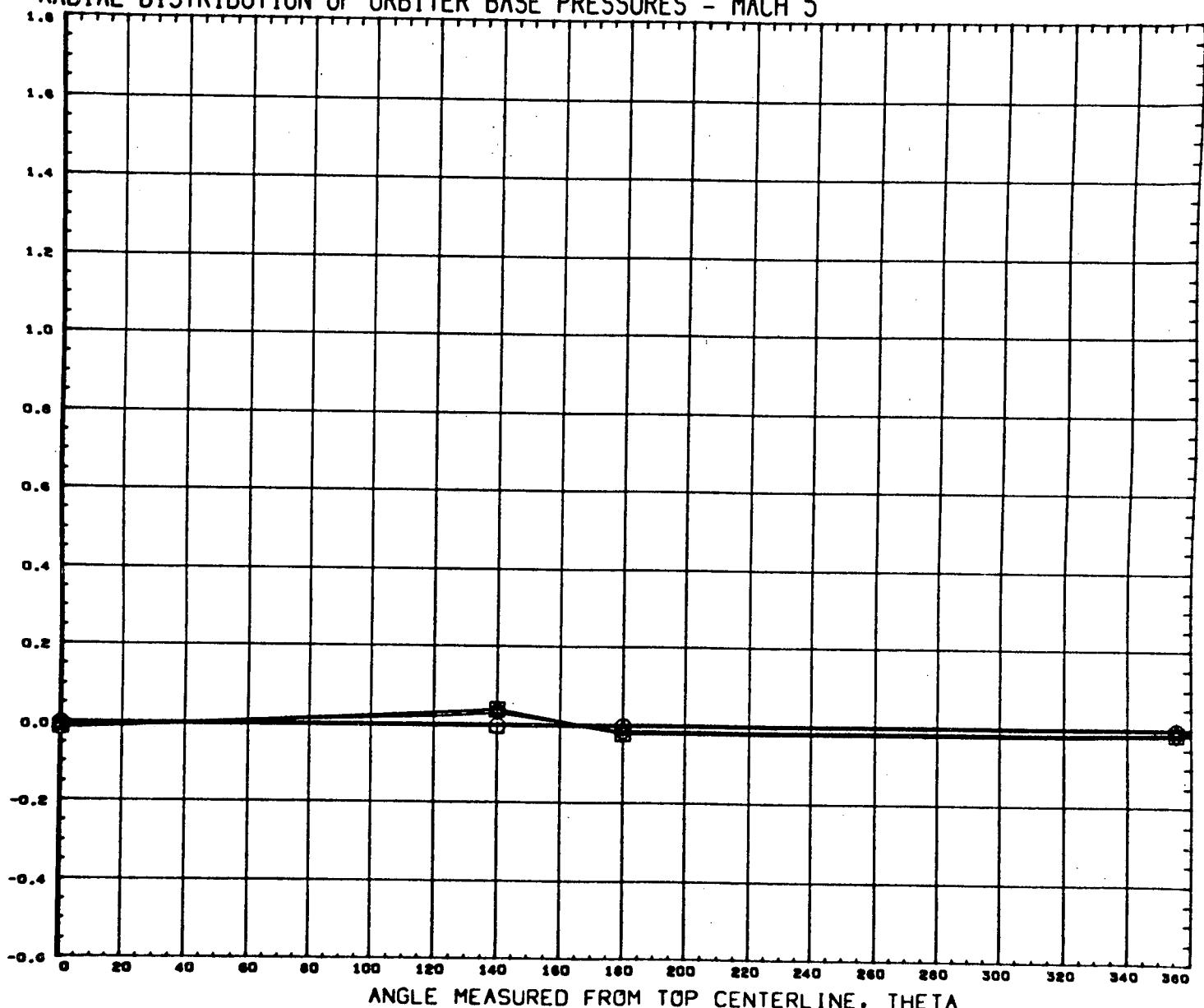
AEDC VA1163 MDAC ORBITER (BASE)

•IT8614•

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RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL DELTAX X/L DELTAZ
 Δ - 0.179 1.000 0.106
 ◇ 0.041
 ◊ 0.103
 □ 0.164

PARAMETRIC VALUES
 ALPHAB 9.995 MACH 4.970
 ALPHAT 0.000 ORBPOW 0.000
 SSTPOW 100.000

REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

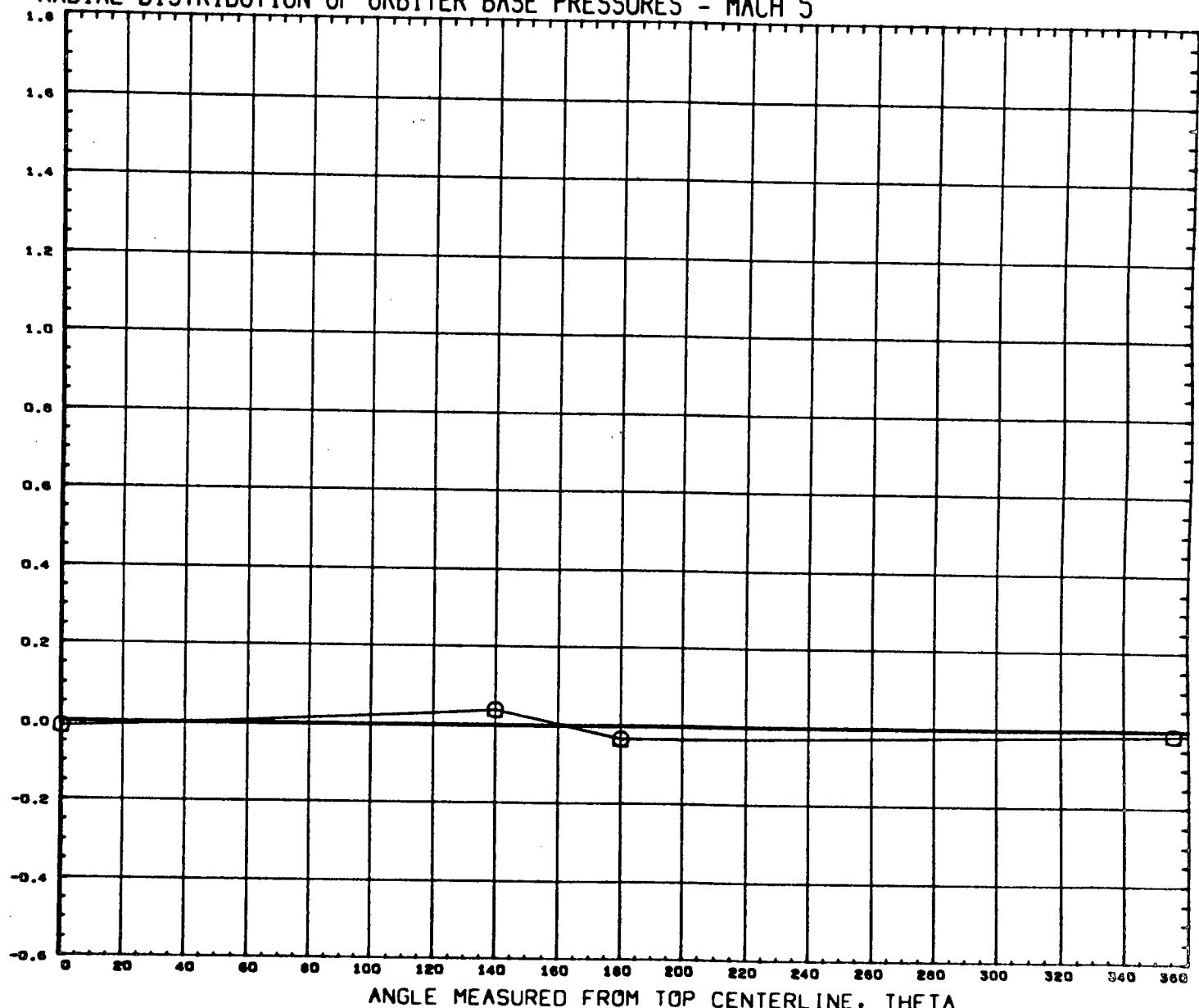
•IT8615•

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0.12

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL DELTAX X/L DELTAZ
□ 0.103 1.000 0.106

	ALPHAB	MACH
ALPHAI	4.906	4.970
BSTPOW	0.000	ORBPOW
	0.000	0.000

REFERENCE FILE

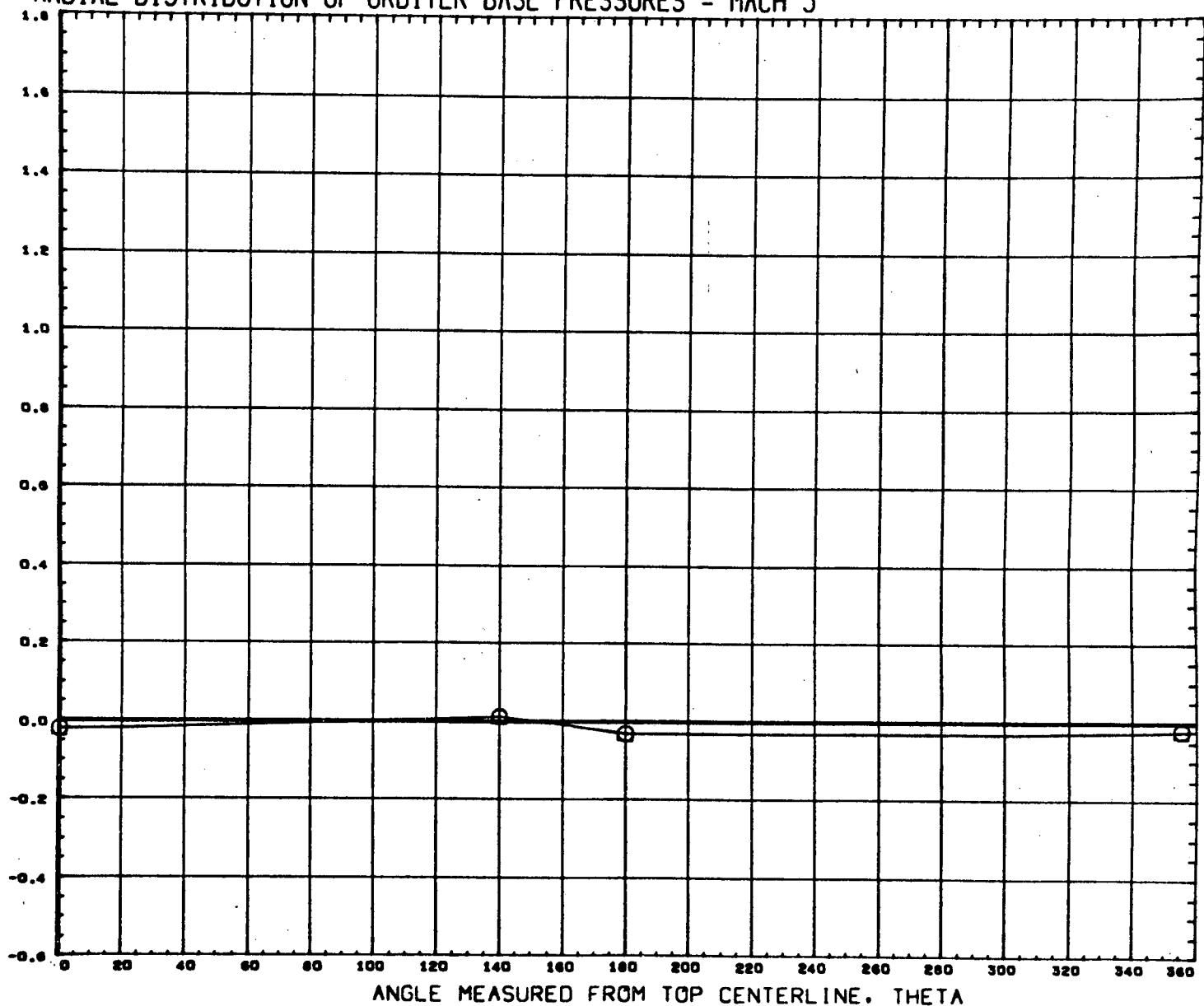
AEDC VA1163 MDAC ORBITER (BASE)

• IT8622 •

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RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL DELTAX X/L DELTAZ
C 0.103 1.000 0.151

ALPHAB	= 4.906	MACH	4.970
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

REFERENCE FILE

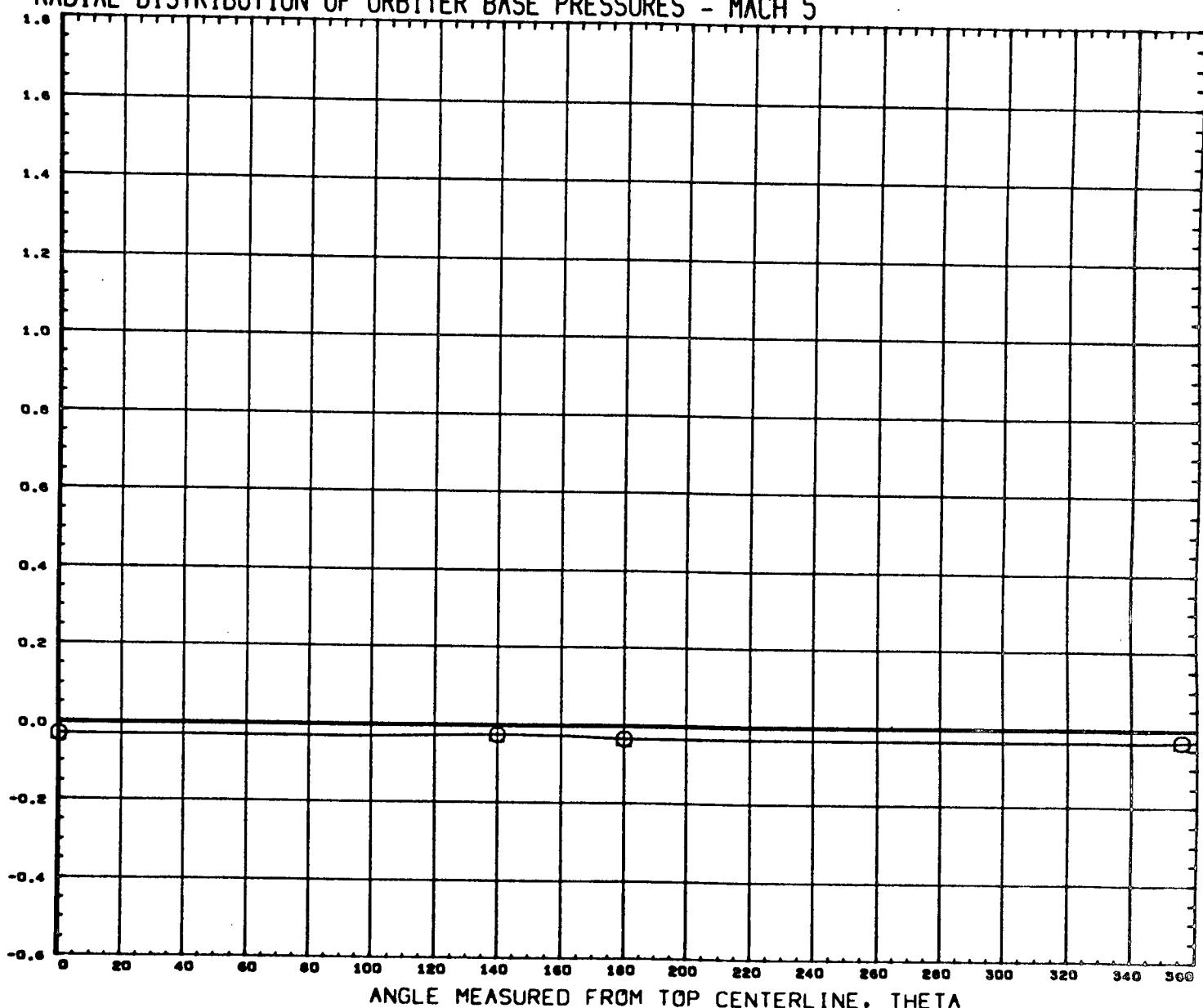
AEDC VA1163 MDAC ORBITER (BASE)

•IT8622•

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RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



SYMBOL DELTAX X/L DELTAZ
 O 0.520 1.000 0.908

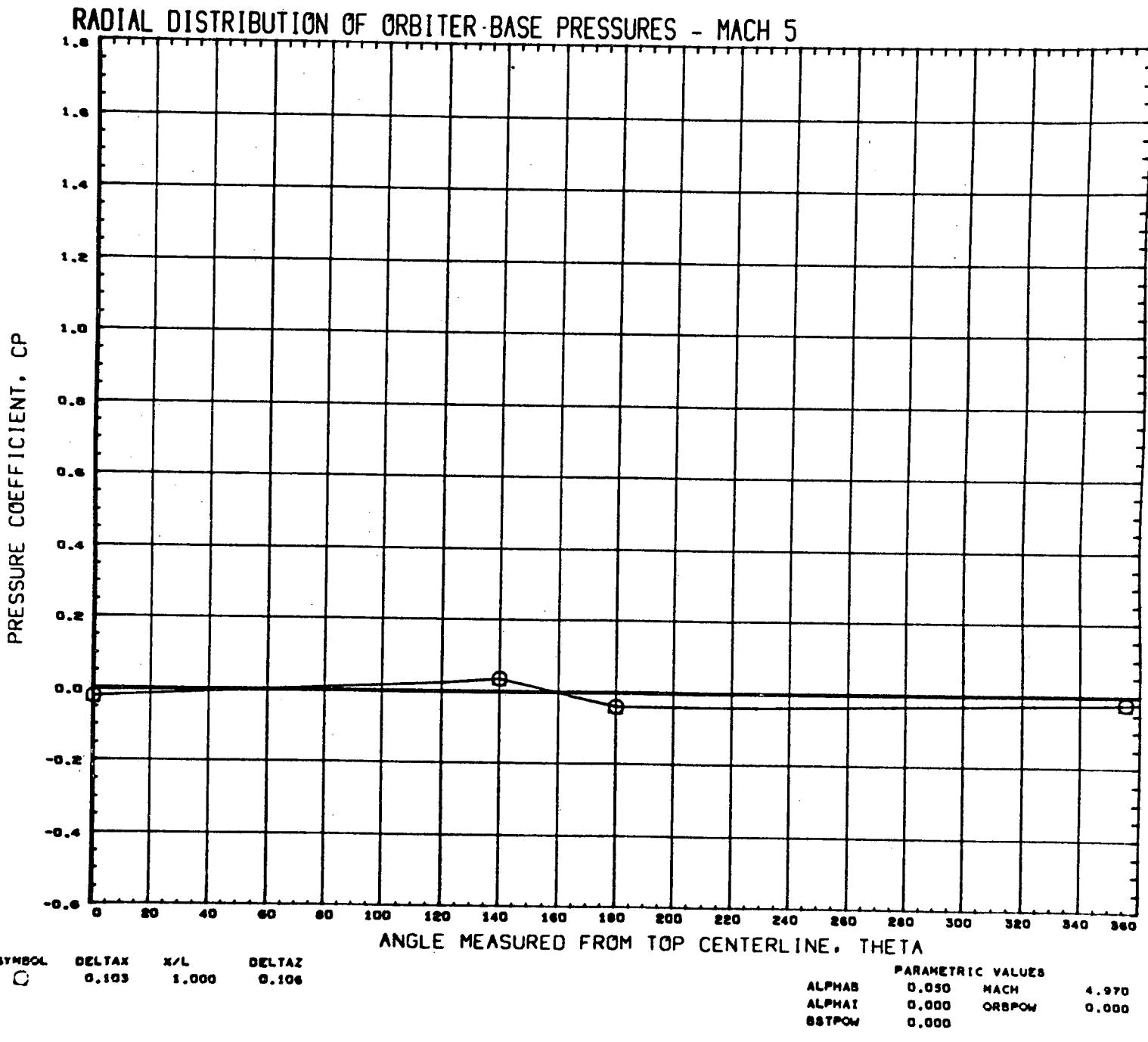
PARAMETRIC VALUES			
ALPHAB	- 4.908	MACH	0.970
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

•IT8622•

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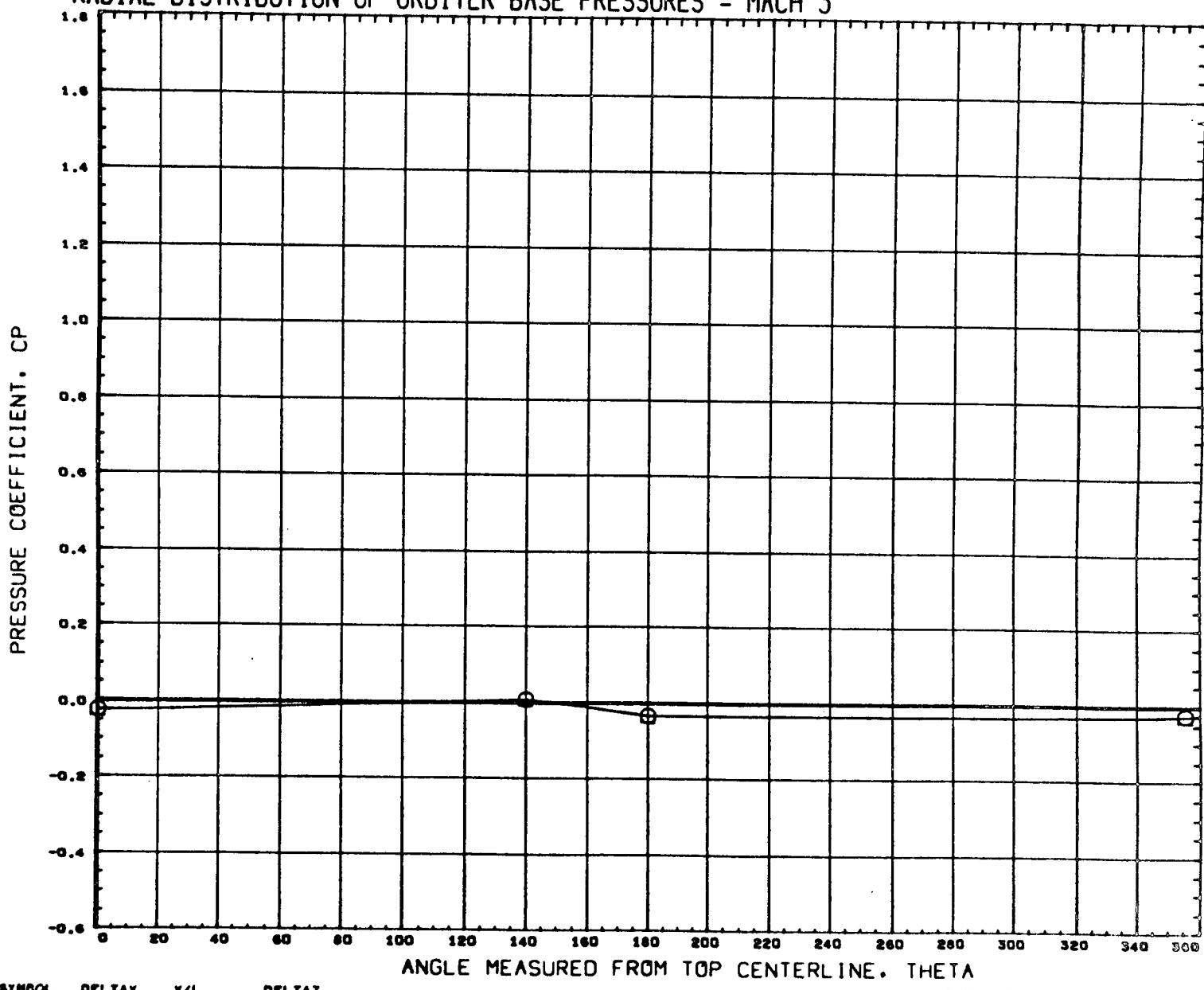


REFERENCE FILE
AEDC VA1163 MDAC ORBITER (BASE)

•IT8623•

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RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL DELTAX X/L DELTAZ
○ 0.103 1.000 0.151

PARAMETRIC VALUES			
ALPHAB	0.050	MACH	4.970
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

REFERENCE FILE

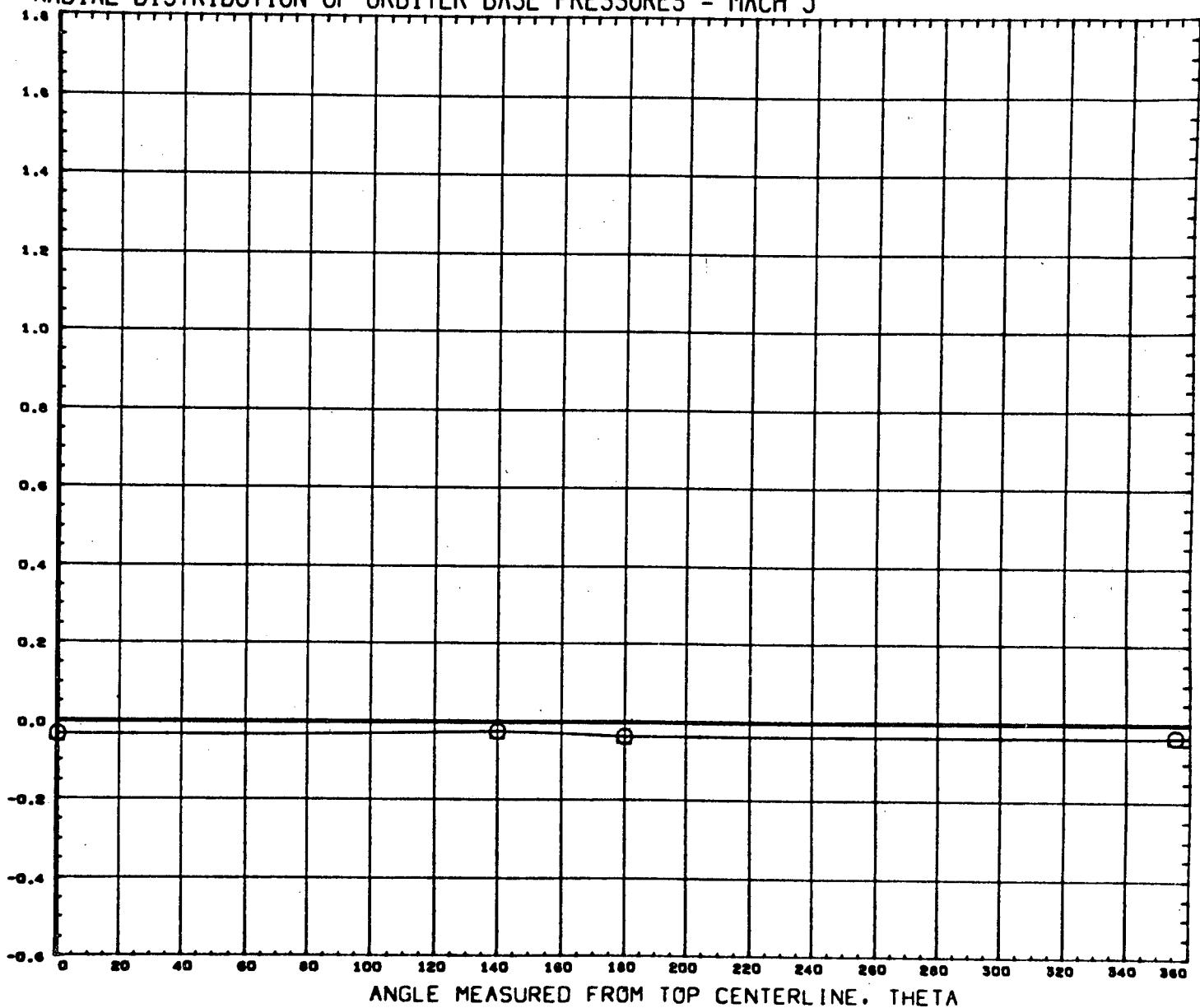
AEDC VA1163 MDAC ORBITER (BASE)

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RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL DELTAX X/L DELTAZ

 0.920 1.000 0.908

PARAMETRIC VALUES

ALPHAB	0.030	MACH	4.970
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

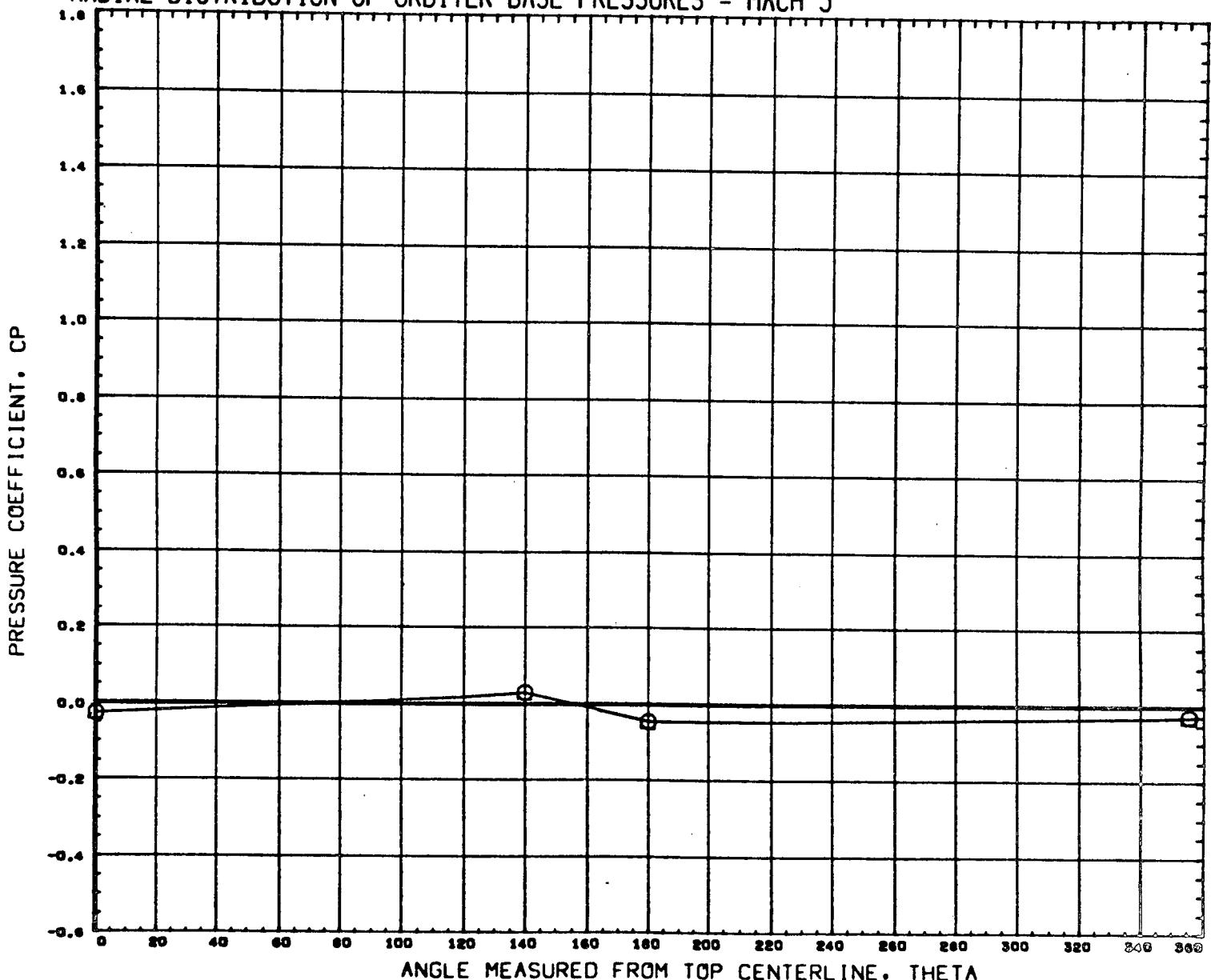
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

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RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL DELTAX X/L DELTAZ
 C 0.103 1.000 0.106

PARAMETRIC VALUES
 ALPHAB 5.026 MACH 6.970
 ALPHAI 0.000 ORBPOW 0.000
 SSTPOW 0.000

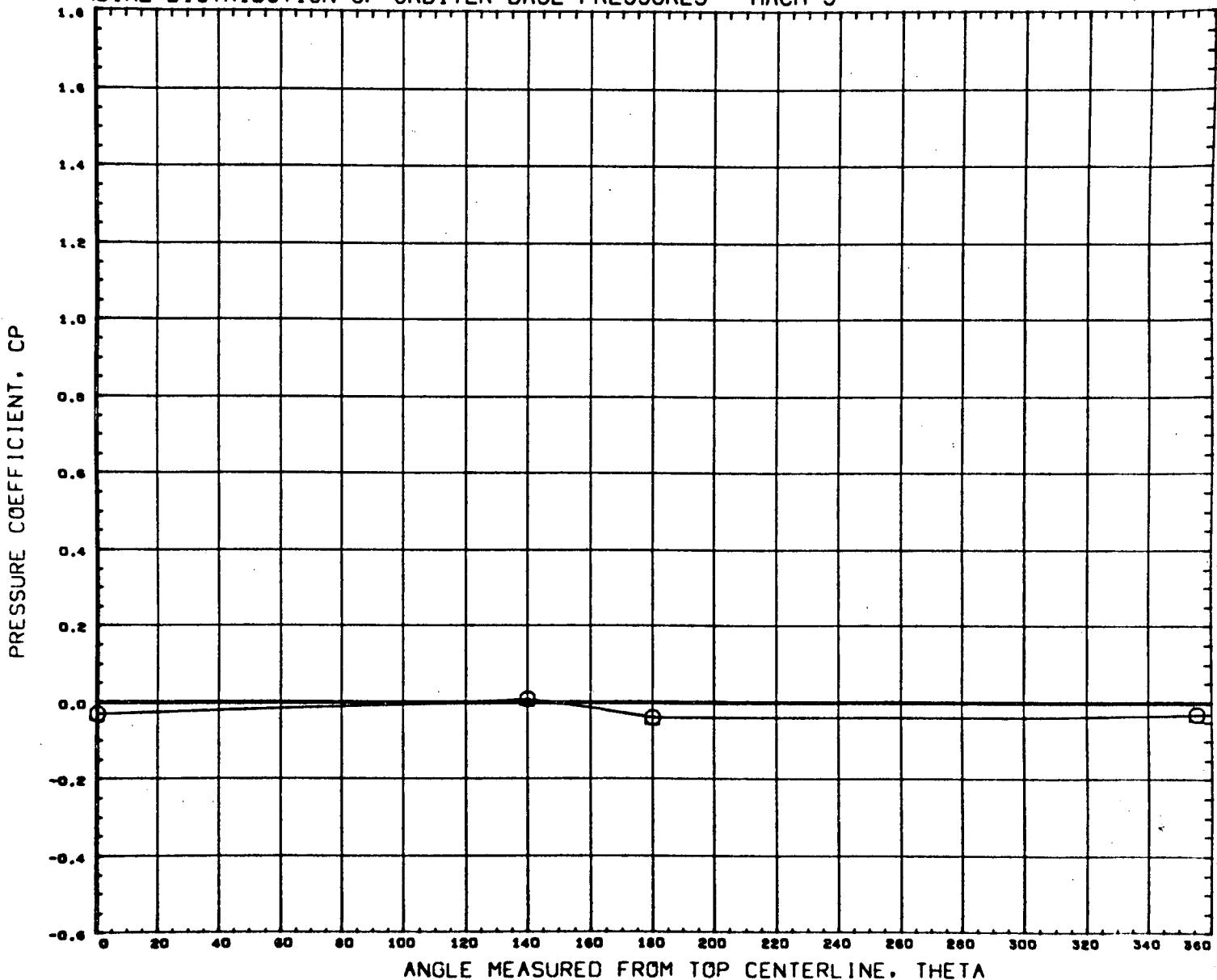
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

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RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL DELTAX X/L DELTAZ
 C 0.103 1.000 0.191

PARAMETRIC VALUES
 ALPHAB 5.026 MACH 4.970
 ALPHAI 0.000 ORBPOW 0.000
 SSTPOW 0.000

REFERENCE FILE

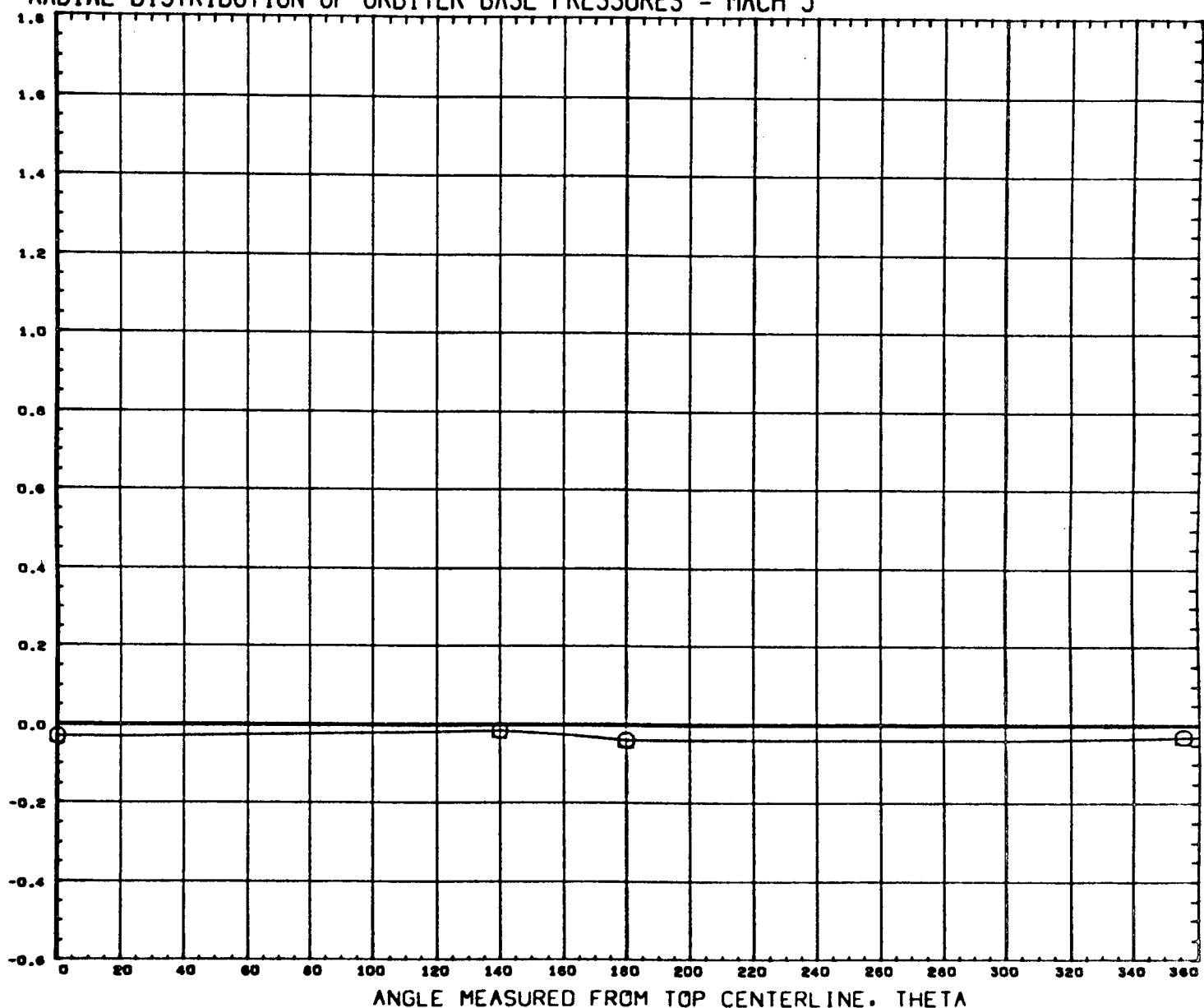
AEDC VA1163 MDAC ORBITER (BASE)

•IT8624•

PAGE 1111

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



SYMBOL DELTAX X/L DELTAZ

○ 0.920 1.000 0.908

PARAMETRIC VALUES

	ALPHAB	MACH
ALPHAI	5.026	4.970
BSTPOW	0.000	0.000

REFERENCE FILE

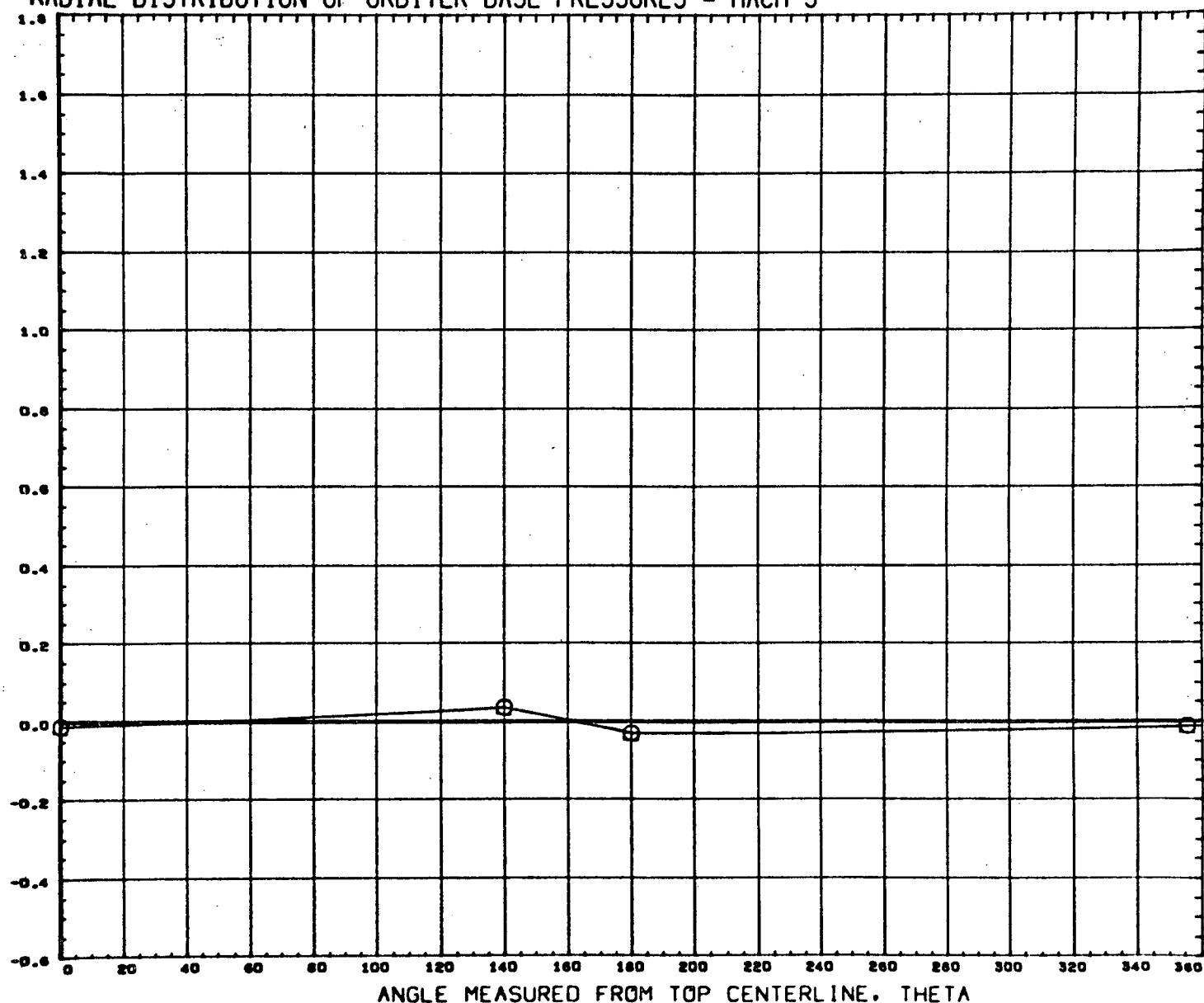
AEDC VA1163 MDAC ORBITER (BASE)

• IT8624 •

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RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

PRESSURE COEFFICIENT, CP



SYMBOL DELTAX X/L DELTAZ

O

0.103 1.000 0.106

PARAMETRIC VALUES

	ALPHAB	MACH
ALPHAI	4.940	4.970
BSTPOW	0.000	ORBPOW
	0.000	0.000

REFERENCE FILE

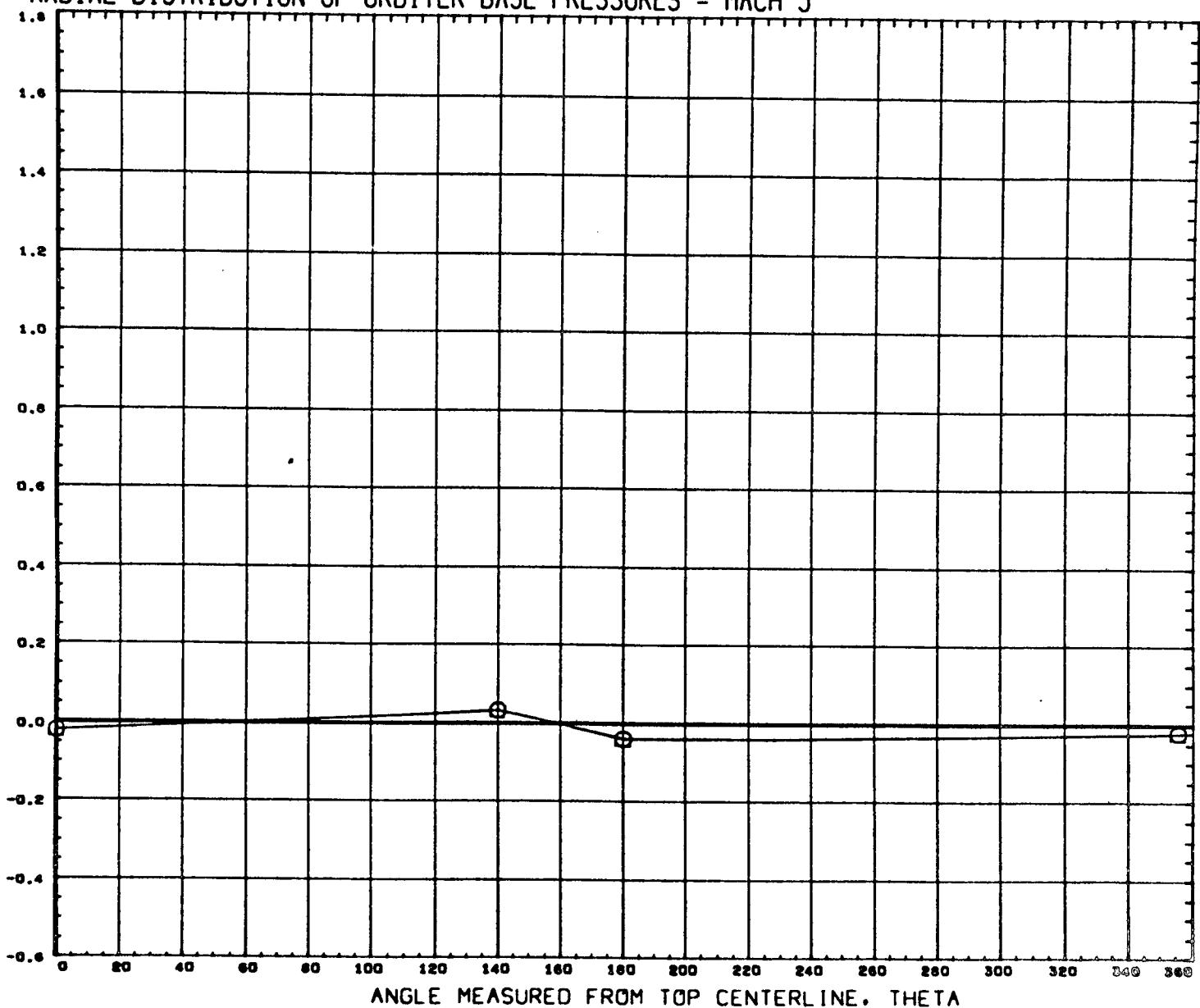
AEDC VA1163 MDAC ORBITER (BASE)

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RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



SYMBOL DELTAX X/L DELTAZ
C 0.103 1.000 0.106

PARAMETRIC VALUES			
ALPHAB	0.020	MACH	4.970
ALPHAT	0.000	ORBPOW	0.000
BSTPOW	0.000		

REFERENCE FILE

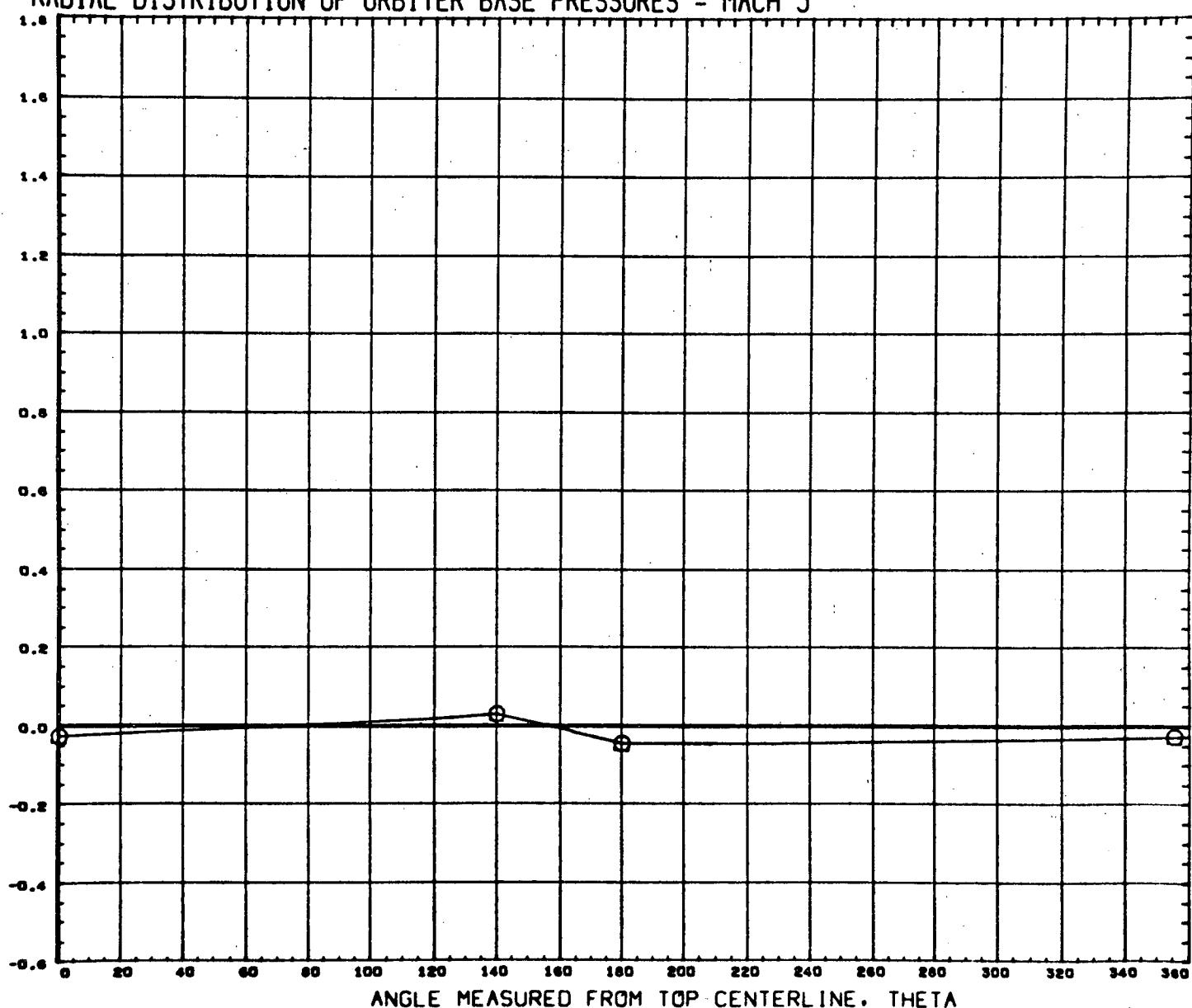
AEDC VA1163 MDAC ORBITER (BASE)

•IT8633•

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RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

PRESSURE COEFFICIENT. CP



SYMBOL DELTAX X/L DELTAZ

(○) 0.103 1.000 0.106

PARAMETRIC VALUES

ALPHAB	4.995	MACH	4.970
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

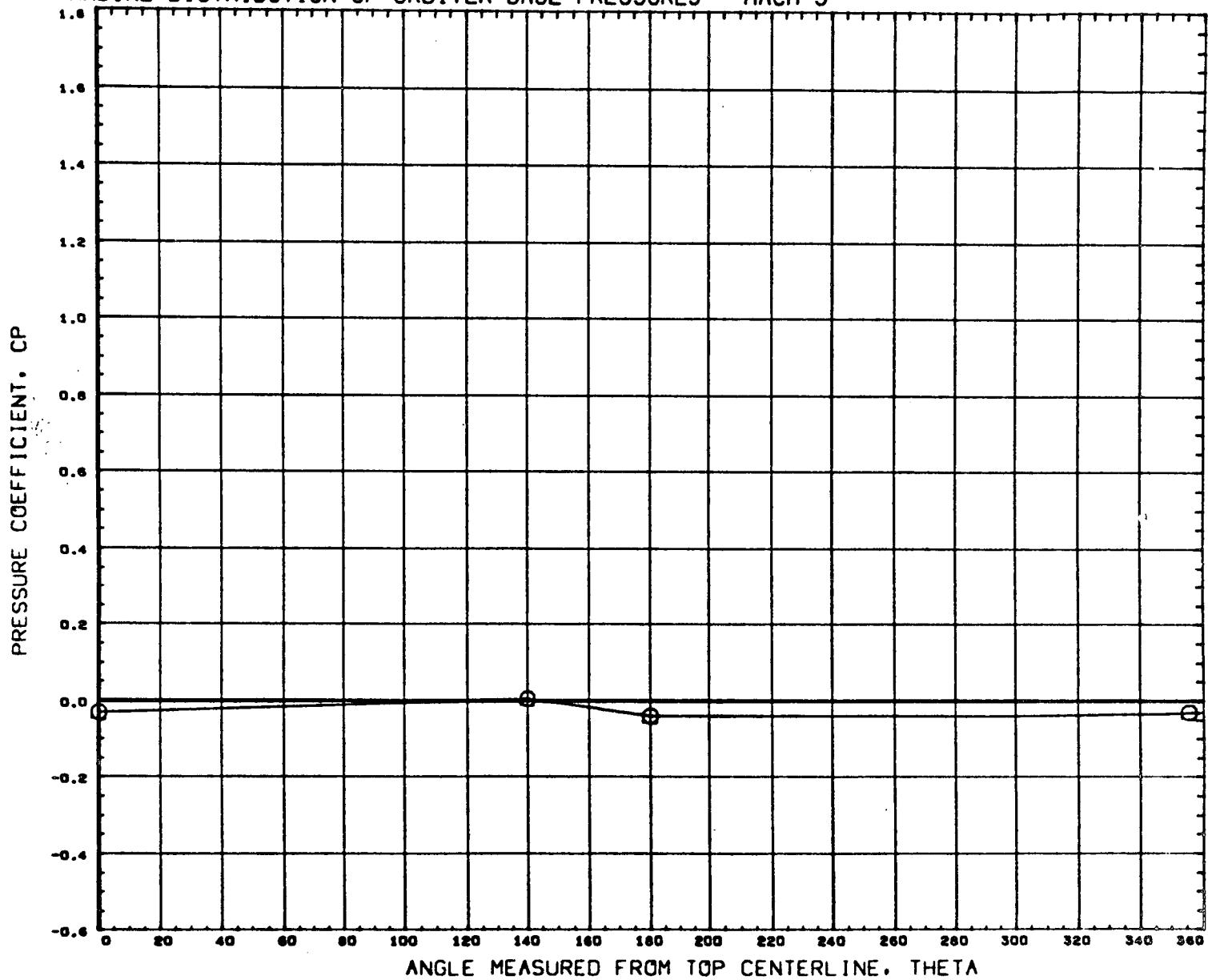
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

•IT8634•

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RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMLOC DELTAX X/L DELTAZ
C 0.103 1.000 0.191

PARAMETRIC VALUES			
ALPHAB	4.995	MACH	4.970
ALPHAT	0.000	ORBPOW	0.000
BSTPOW	0.000		

REFERENCE FILE

AEDC VAI163 MDAC ORBITER (BASE)

•IT8634•

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